Oil, Paint and Drug Reporter

The Chemical Market Authority Since 1871

Volume 158 No. 25 | 30 Church Street, New York 7, N. Y. | December 18, 1950

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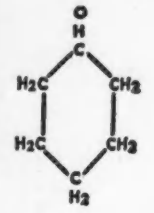

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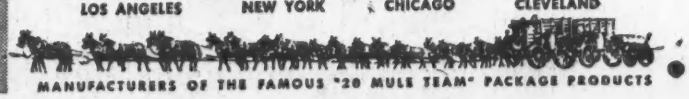

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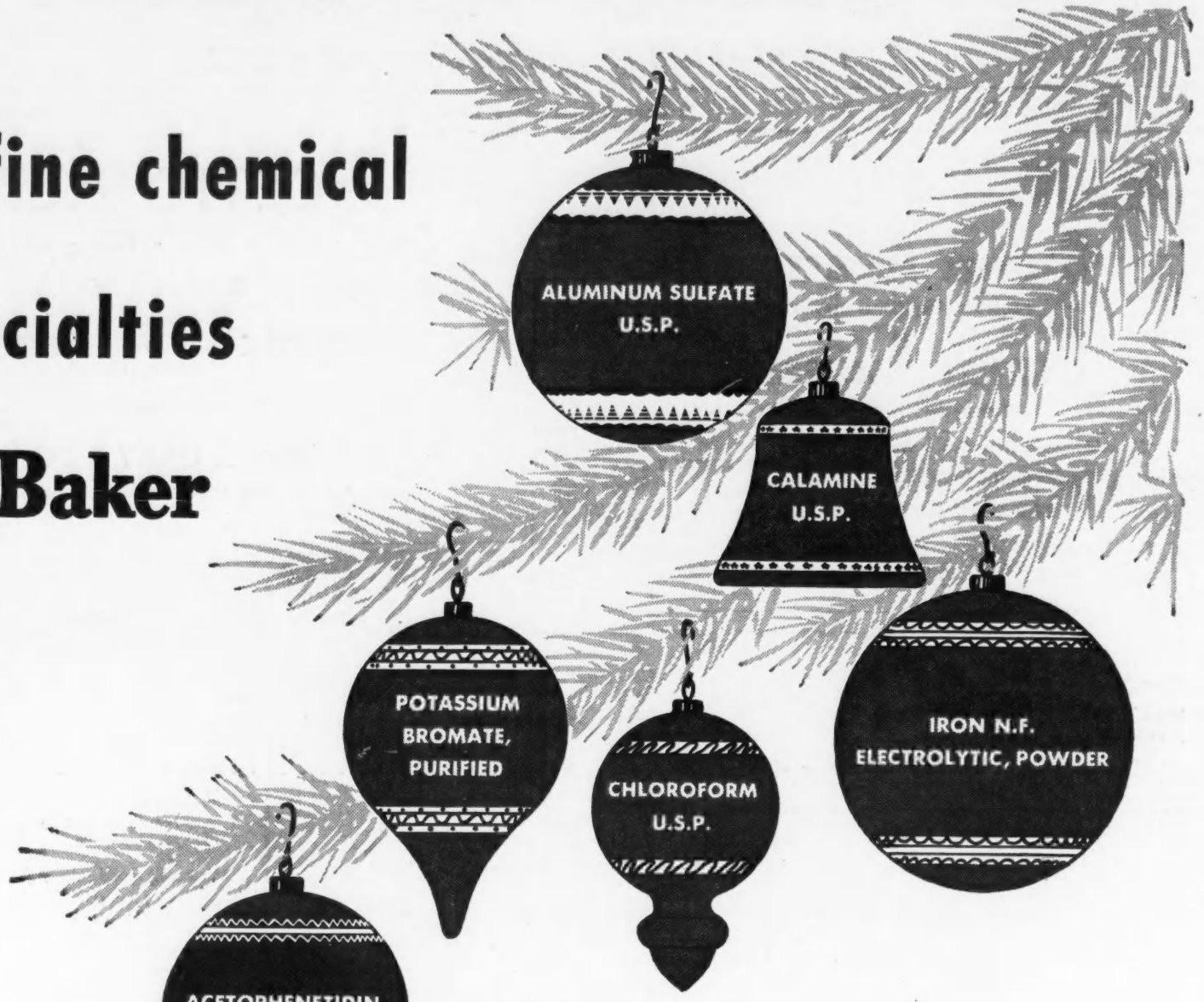

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Oil, Paint and Drug Reporter

DEC 18 50

Volume 158 No. 25 | 30 Church Street, New York 7, N. Y. | December 18, 1950

Chemicals and Gases Survey by U. S. Set

The Bureau of the Census has drawn up plans for a survey of the production and shipment of inorganic chemicals and gases on an annual basis which will provide industry and the government with more up-to-date information on this important part of the chemical industry.

Officials of the bureau said that the questionnaires will call for essentially the same information as was obtained in the 1947 Census of Manufacturers. The questionnaires will be placed in the mails sometime after the first of the year with a request that the replies be made within thirty days. The bureau hopes to publish the data later in the year.

At the present time, the bureau collects information monthly on a selected list of inorganics and publishes the information on production on a dollar value basis. The annual survey will cover the entire inorganic chemicals and gases industry and will gather information on both shipments and production, with the data on shipment shown both in dollar value and quantity.

Aid to Defense Planning

The report, it is anticipated, should prove of inestimable value to the new defense agencies since it will provide a 1950 bench-mark from which to operate in planning expansion of production for defense and control over shipments and uses of strategically important inorganics. The data will be especially useful if, in the defense program, it becomes necessary to get monthly reports from industry on production and shipments.

Meanwhile, the annual survey of certain listed industries and products on which production data is now collected, will get underway within thirty days. The purpose of this survey is to obtain statistical information from the producers of the products who are not covered by the monthly, quarterly or semi-annual surveys of the bureau.

Named in the list of products to be covered are chemicals and gases; sulphuric acid; superphosphates; softwood plywood; steel shipping barrels, drums, and pails; metal cans, and commercial closures. Reports are now made periodically by producers of these products and, while they

—Continued on page 69

NPA Establishes Copper Scrap Distribution System

The National Production Authority issued an order December 11 to provide for the continuous flow of copper scrap into normal channels of distribution. The order enumerates the types of copper scrap which may be delivered to refineries, ingot makers, copper wire mills, brass mills, foundries and miscellaneous producers, such as operators of chemical plants, iron foundries, aluminum foundries, etc., who require copper raw materials in their regular production operation.

The order (M-16) provides that no person other than producers of copper raw materials may melt or process copper scrap originating in his own plant unless approved by NPA. It also states that such scrap may be disposed of only to scrap dealers, refineries and others authorized by the order to accept delivery of such scrap.

Inventories of copper scrap by scrap dealers are limited by the order to one-third of his inventory by weight during the first six months of 1950. Originators of scrap likewise may not accumulate excessive inventories of their raw scrap. Excessive inventories are subject to requisition under the defense production act.

Use for Convertion Prohibited

Unless specifically approved by NPA, the order prohibits the delivery or acceptance of copper scrap for converting, melting or other processing if the owners of such scrap would still retain title to such copper after processing. Requests for approval of toll or conversion agreements permitting this may be filed with NPA.

Copper scrap is all copper or copper-base alloy materials, which are the waste or by-product of industrial fabrication, or which have been discarded on account of obsolescence, failure or other reasons. The order applies to brass mill scrap, other copper-base alloy scrap and unalloyed copper scrap, fired and demilitarized cartridge and artillery cases.

Price Index Goes Higher

Once again, last week, the price changes in the markets for chemicals, oils, and drugs affected close to 200 materials; and 89 percent of the changes were advances. They were in all areas, and they raised the averages of half of the ten primary divisions. The overall gain from the preceding week was 2.7 points and the week's index number is 20.2 points higher than it was a year ago and even 1.6 points above the comparable 1948 mark.

Nonferrous metals were quiet; their salts are tight. There were advances in nickel and quicksilver and reductions in tin. Advances in copper and zinc acetates were influenced by the acid's position. Tin salts were reduced. Cadmium colors were raised. An advance for muriatic acid was the only reaction from the chlorine situation, even though there was a snow demand for calcium chloride. Phosphate rock and some phosphates were advanced, which is a forecast with respect of the acid.

Advances in organic chemicals ran far and wide in the coaltar and other groups, taking in a number of pharmaceuticals and the new weedkillers, formaldehydes and barbiturates, and a number of alcohols and alkyl esters and amines.

Both edible and drying vegetable oils were on the upside along with animal fats and oils: Advances in fatty acids included stearic, and stearates were sent along. Copra and coconut oil were lower; vegetable waxes were higher. Egg derivatives got a big boost. Corn products were moved upward. Natural and derived botanical drugs were heavily on the upside. Spices were less markedly so, some of them being on both sides. Changes in essential oils were all upward, and several derived and constructed aromatic principles also were higher.

Demand keeps ahead of supply in most tonnage acids, in alkalies, and in chlorine. Some of the big movers among chlorine compounds, especially the newer ones, are being something like allocated by producers. Government control would be welcomed. A few producers have dodged the headache by quitting. The shortness of benzene is aggravating that situation in certain areas. The freight tieup is not helping.

OPD Price Index

The OIL, PAINT AND DRUG REPORTER'S relative record of prices for chemicals and related materials is currently as follows:—

Dec. 15, 1950	Dec. 8, 1950	Dec. 30, 1949	Dec. 16, 1949
145.1	142.4	124.8	124.9

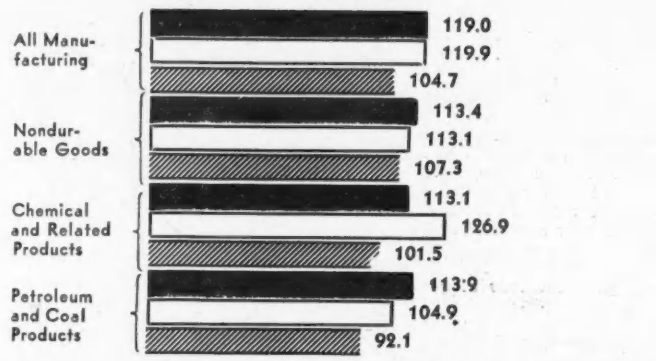
The base of the OPD Price Index is the average of prices in 1926 and 1936, those years representing extremes of price undulations in the interwar period.

OPD Index Monthly Averages

	1950	1949	1947	1946	1941
January	123.2	142.0	150.9	135.3	107.3
February	121.3	140.4	151.9	135.4	110.3
March	121.8	137.6	154.9	135.2	111.9
April	121.0	133.6	152.3	134.9	115.5
May	120.6	131.2	146.1	135.1	118.2
June	120.7	128.7	143.9	135.4	121.9
July	122.8	128.1	142.5	137.7	125.5
August	128.8	128.9	140.4	136.6	128.2
September	135.1	129.1	141.9	137.0	130.4
October	137.8	126.6	146.1	143.1	133.2
November	138.4	125.7	149.7	149.2	135.1

Business in September, 1950

100=Same Month in 1949



Tin Requirements Studied By Government and Industry

Members of the tinplate industry advisory committee conferred with the National Production Authority December 14 on immediate steps to insure tin requirements for the expanding rearmament program and measures to spread the remaining supplies of this metal for the production of non-defense goods.

The industry committee was told that the amount of tin for non-defense consumption during 1951 will be considerably less than the amount available this year. They also discussed a proposed order limiting the non-defense use of tin and industry members recommended that the order fix the amount of tin available for plating on a quarterly basis.

C.E. Wilson to Head Mobilization Program

Charles E. Wilson, president of the General Electric Company, announced, December 14, his willingness to serve as head of the nation's new industrial mobilization program. According to Mr. Wilson, the offer to head up the new overall defense production agency was tendered him by President Truman December 10 in a phone conversation.

Cadmium Supply Situation Explored by Govt. Planners

Temporary action to provide some cadmium immediately for certain highly essential non-defense uses, and plans for a longer-range program to stretch supplies of this commodity to meet both defense and other important requirements were discussed at a meeting of the cadmium industry advisory committee December 11 with officials of the National Production Authority.

Because rated defense orders for cadmium metal, oxides and salts exceed the total available supply, NPA has sent individual directives to producers and prime distributors on filling of orders through next January 31. These temporary directives provide that "DO" orders, including those on hand, be filled up to 50 percent of the amount of each order. However, where supplies do not permit filling orders to that extent, they are to be filled on a proportionate basis. The temporary directives were necessary, the industry committee was told, to prevent a complete shut-off of supplies for non-defense uses.

In discussing plans for a longer-range program covering cadmium distribution, both the industry committee and NPA agreed that an order should be developed which would:—(1) Establish cadmium inventory controls, and (2) set up a specific list of permitted cadmium usage.

A Merry Christmas to You

U. S. Benzene Needs Subject of Conference

An immediate survey for the requirements of benzene over the next five years in order to establish a basis for determining the need for new production capacity was instituted December 14 by a task force from the industry, following a meeting of officials of the National Production Authority with benzene producers and consumers.

NPA said that it was agreed at the meeting that there is a strong need for new sources of benzene, even if the present emergency did not exist. Preliminary estimates place the 1951 supplies, including imports, at 207,000,000 gallons against an anticipated demand of 220,000,000 gallons.

The survey is aimed at expanding the supply of benzene from petroleum, rather than from coal-hydrogenation processes, although a spokesman for the Defense Petroleum Administration said that it would be late in 1952 before substantial quantities can be developed from this source.

The task force making the survey is headed by L. A. Schlueter, who has just been named chief of the coaltar chemicals section of NPA. Mr. Schlueter administered the coaltar chemical's programs of the War Production Board during World War II and, after the war, was the Washington representative of the American Coke and Coal Chemicals Institute. Other members of the committee are:—

G. H. Gleason, of the Barrett Division, Allied Chemical & Dye Corporation; Q. T. Dickinson, of the American Cyanamid Company; Carl A. Gerstacker, of Dow Chemical Company; L. R. Bailey, of E. I. duPont de Nemours & Co.; Dan M. Rugg, of Koppers Company; Clayton A. Wolfe, of Monstanto Chemical Company; Pincus Rothberg, of Montrose Chemical Company; George L. Parkhurst, of Oronite Chemical Company; John P. Toe, of U. S. Rubber Company, and R. B. Lowe, of Union Carbide & Carbon Corporation.

Improve Recovery Processes

In addition to this survey, industry representatives went on record in favor of prompt completion of a survey projected by the Bureau of Mines to determine what additional benzene can be recovered from cokeoven by improving recovery processes. It is estimated that between 10,000,000 and 20,000,000 gallons of benzene is going to waste through inefficient recovery operations.

The group also urged that appropriate government agencies expedite the development of agreements to acquire substantial amounts of benzene from abroad in order to circumvent European brokers who are holding for high prices. It was intimated that supplies of benzene may be obtained from Germany, Belgium, and

—Continued on page 69

Copper, Lead, Zinc Price Talks Called January 3-4

Invitations were sent December 13 by Price Stabilization Director Michael DiSalle to representatives of the copper, lead, zinc and steel producing industries to meet in Washington next month to discuss prices for these products.

The copper group was invited for January 3, the lead and zinc industry for January 4 and the steel industry for January 5. Alan Valentine, Administrator of the Economic Stabilization Agency, who will also attend the meetings, said that they will "discuss a number of stabilization programs affecting the industries."

The copper manufacturers to which telegrams were sent are:—DeWitt Smith, Newmont Mining Company, New York; James Douglas, Phelps Dodge Corporation, New York; Simon Straus, American Smelting & Refining Company, New York; Clarence Glass, Anaconda Copper Mining Company, New York; C. R. Cox, president, Kennecott Copper Company, New York, and Morris Lacroix, Copper Range Company, Boston, Mass.

The lead and zinc manufacturers to which telegrams were sent are:— Marshall Harvey, New Jersey Zinc Company, New York; Simon Straus, American Smelting & Refining Company, New York; Charles Ince, St. Joseph Lead Company, New York; Miles Zohler, Eagle Pitcher Lead Company, St. Louis, Mo.; Clarence Glass, Anaconda Copper Mining Company, New York.

Congress Ends Probe On Chemicals in Foods

The Delaney committee of the house investigating the use of chemicals in foods concluded its hearings December 15 without hearing representatives of the Department of Agriculture. Members stated, however, that they planned to recommend that the investigation be resumed in the new congress next January, at which time spokesmen for the department will have an opportunity to testify.

The reason for not hearing the department at this time was a lack of sufficient time for the committee to reveal its record and prepare its report for congress. The committee automatically goes out of existence at the end of the year and, with the Christmas holidays intervening, members said that they had to cut the hearings short.

The committee has in its possession two letters from the agriculture department, one from Secretary of Agriculture Charles F. Brannan and the other from PMA administrator Ralph F. Trigg, which discuss the problems of the use of chemicals in foods at great length, but it had not been decided when the hearings ended whether they will be entered into the record at this time or be held until the hearings resume next year.

The department's position in the matter is of prime importance to the recommendations which the committee might make on legislation, and its disclosure has been keenly awaited by industry.

Views on Controls Divided

As the hearings went into their final week December 11, testimony continued to pour into the record both for and against the adoption of new control legislation. It seems to be fairly well divided, with

—*Continued on page 41*

Consolidated Mining Plans $15,000,000 Expansion

R. E. Stavert, president of the Consolidated Mining & Smelting Company of Canada, Ltd., has announced construction projects, amounting to a total of $15,000,000, to be undertaken by his company.

The company has decided to increase its fertilizer production by building a plant at Kimberley, B. C., with a capacity of about 70,000 tons per year of ammonium phosphate, at a cost estimated at approximately $9,000,000. The new plant will include a unit for the treatment of tailings from the company's Sullivan mines to produce about 300 tons per day of sulphuric acid, which will be used for the treatment of phosphate rock from the company's mines in Montana.

At Trail, the company will build an addition to its electrolytic zinc refinery at an estimated cost of about $3,200,000. This new unit will increase the production of refined zinc by about seventy tons per day and will use 15,000 horsepower of electrical energy. The extra plant capacity is required to treat the increasing quantity of zinc ores and concentrates which are becoming available from numerous mining operations in British Columbia as well as the zinc which will be available from the Bluebell mines on on Kootenay Lake and other properties owned by the company which are now being prepared for production.

Victor Chemical Works Announces 4 Promotions

Victor Chemical Works, Chicago, Ill., has announced four promotions within its organization. Clarence G. Derick has been appointed superintendent of operations in Montana. Charles A. Hendrickson has been named production superintendent of the new Silver Bow, Mont., phosphorus plant, now under construction. C. J. Stoltenberg has been assigned as assistant to the general personnel director, with headquarters in Chicago Heights, Ill. L. O. Streitmatter has been transferred from Chicago Heights to the company's Tarpon Springs, Fla., plant as assistant to the superintendent of that unit.

Shell Chemical to Expand Synthetic Ammonia Output

Shell Chemical Corporation has announced plans for a substantial further expension of its synthetic ammonia plant at Shell Point, near Pittsburgh, Calif. Equipment for the new expansion is expected to be completed and in operation by next Spring.

The output of the Shell Point synthetic ammonia plant has been increased four times during the past twenty years of its operation. The latest expansion will represent an increase in output of over 300 percent during the past ten years.

AAAS Sets Pharmacy Conclave Dec. 28-29

The American Association for the Advancement of Science will hold a meeting of its pharmacy subsection December 28 and 29 in the Cleveland Public Auditorium, Cleveland, Ohio.

The program gets under way the morning of December 28 with the presentation of the following papers:—"Vitamin Stability Studies in Pharmaceutical Products," R. F. Prindle; "The Determination and Stability of Ferrous Gluconate," L. Maresh and R. F. Prindle; "Diuretic Properties of Some Alkyl-Sugar Derivatives," F. Skelton and G. A. Grant; "The Effect of Normal Butanol in Sodium Salt Solutions Upon Shock and the Survival of Mice Exposed to Severe Extensive Thermal Burns," R. A. Ravich and E. Revici.

"The Determination of the Penetration of Certain Sodium Alkyl Sulphates and Sodium Sulphate through Rat and Mouse Skin," P. M. Scott, L. D. Edwards and J. E. Christian; "The Isotope Dilution Procedure of Analysis," J. E. Christian and J. J. Pinajian, and "The Determination of Analgetic Potency," A. Tye and B. C. Christensen.

Folic Acid Stability Study

"A Study of Folic Acid Stability on Solutions of the B Complex Vitamins," by A. R. Biamonte and G. H. Schneller, will lead off the program on the afternoon of the twenty-eighth. Other papers to be presented are as follows:—"Kellin—Part I

—*Continued on page 68*

N-acetyl-p-aminophenol Available in Large Lots

The pharmaceutical department of the Calco Chemical Division, American Cyanamid Co., Bound Brook, N. J., announced last week, the commercial availability of n-acetyl-p-aminophenol, an analgesic and antipyretic drug. This, the company stated, is the substance to which acetophenetidin and acetanilid is metabolized in the body, and it is accordingly free from any side effects created by the metabolic products of the latter drugs.

The new commercial quantity production was quoted at $1.50 per pound in single 200-pound drums, or under contract for quantities of 1,000 pounds or more packaged in either 100 or 200-pound fiber drums. Single 100-pound drums were quoted at $1.52 per pound, 50-pound drums at $1.58, and 25-pound drums at $1.60. On order or contract for 1,000 pounds or more, material packaged in 50-pound drums was priced at $1.52 per pound, and in 25-pound drums at $1.54.

Sulphur Controls Likely, Government Tells Industry

Indications that formal action would be necessary to assure equitable distribution of sulphur on the domestic market and maintain necessary exports to Marshall Plan and other friendly nations were given by National Production Authority officials at a conference with industry representatives December 12.

Several interested government agencies are considering the question of how much sulphur must be exported in 1951 to avoid undue hardship to friendly nations which depend on United States supplies, NPA officials said. Producers told the agency that demand for sulphur in 1951 will considerably exceed production.

Discussion indicated that foreign pyrite sources can be developed to substitute for sulphur, but time and cost will make this a relatively long-range development which can offer no immediate relief.

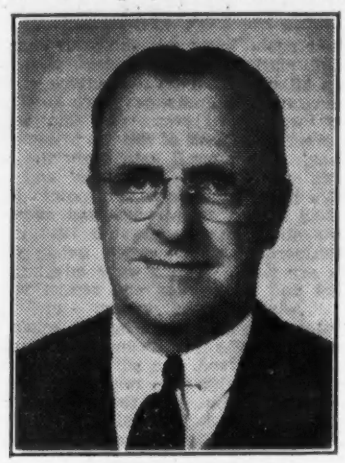
Rubbermakers' Sulphur Up

An increase in rubbermakers' sulphur has been announced by a major producer. Effective immediately to spot buyers and to contract buyers as of January 1, the price for commercial rubbermakers' sulphur, 99½ percent pure, will be $2.25 per 100 pounds, f.o.b., mines. Refined rubbermakers' sulphur will be $2.85 per 100 pounds, also f.o.b. mines.

Flowers of sulphur especially processed for the rubber companies containing a minimum of thirty percent insoluble sulphur likewise is being advanced to $4.25 per 100 pounds, f.o.b. mines. Commercial flour of sulphur, 99½ percent pure, being revised upward to $2.05 per 100 pounds, f.o.b. mines.

SOCMA Views Tariff Laws; Reelects Moody

Efforts of the Synthetic Chemical Manufacturers Association to combat legislation unfavorable to the chemical industry were reviewed by the Association's president, Sidney C. Moody of the American Cyanamid Company at the annual meeting



Sidney C. Moody

held at the Commodore hotel, New York, December 12.

Mr. Moody was reelected president for 1951. Other officers elected were Cary R. Wagner, General Aniline & Film Corporation, first vice-president; Paul K. Lawrence, E. I. du Pont de Nemours & Co., second vice-president, and Clayton S. Shoemaker, Dow Chemical Company, treasurer.

Elected to the board of governors were Frederick Dehls, Benzol Products Company, and Morton M. Gruber, U. S. Industrial Chemicals, Inc. Dr. Elvin H. Kilheffer, formerly of du Pont, and Dr. August Merz, long active in activities of SOCMA, were elected honorary members of the board.

At the annual banquet, Gen. Robert L. Eichelberger, World War II commander of the Eighth Army in the Pacific theatre, made an off-the-record talk.

The next meeting of the association will be a luncheon in the Commodore on January 10. The joint outing with the Manufacturing Chemists Association will be held at White Sulphur Springs, W. Va., June 14 to 16.

Procaine Hydrochloride Up

B. L. Lemke & Co., Lodi, N. J., late last week announced higher price schedules on procaine hydrochloride, USP. Under the new listings, 1,000-pound quantities were quoted at $4 per pound, 500-pound lots at $4.25, and 100-pound drums at $4.50.

Foreign Sales Leads

Firms in the United States who are interested in supplying the following inquiries with goods or information can get the full address of the inquirer by communicating—not by telephone, please—with the OPD office:—

Chemicals, industrial, Recife, Brazil (GQ-1, agency); Rotterdam, Netherlands (GQ-3); Milano, Italy (GQ-8).

Chlorinated rubber, Rotterdam, Netherlands (GQ-3).

Cosmetics, Genoa, Italy (GQ-4, agency)

Hormones, Milano, Italy (GQ-7, agency).

Lubricating oil, Tetuan, Morocco (GQ-5, agency).

Medicinal products, Genoa, Italy (GQ-4, agency).

Nickel sulphate, Rotterdam, Netherlands (GQ-3).

Paint, Recife, Brazil (GQ-1, agency).

Paraffin, Sao Paulo, Brazil (GQ-2, agency).

Perfumes, Genoa, Italy (GQ-4, agency).

Pharmaceutical products, Rome, Italy (GQ-6, agency).

Phosphorus, amorphous, Sao Paulo, Brazil (GQ-2, agency).

Plant for manufacture of caustic soda, chlorine, and derivatives, electrolytic process, Panama (GQ-12).

Plastics materials, Rotterdam, Netherlands (GQ-11).

Potassium chlorate, Sao Paulo, Brazil (GQ-2, agency).

Soap making materials: animal tallow and rosin, Tivoli, Italy (GQ-9).

Sodium bichromate, Rotterdam, Netherlands (GQ-3).

Sodium bisulphate, Rotterdam, Netherlands (GQ-3).

Sodium perborate, Rotterdam, Netherlands (GQ-3).

Suprarenal glands, bovine and pigs, Genoa, Italy (GQ-10).

Vitamins, Milano, Italy (GQ-7, agency).

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Who Has It?

Inquiries in the OPD editorial office seek sources from which the materials listed below can be obtained. Information will be gratefully received here:—

3-Butyl-5-sulphodiphenyl sodium salt.
Metadimethylaminophenol.
Oxynaphthyltoluilic acid.

Fly Control Problems Discussed by AAEE

Further evidence of house flies' resistance to insecticides was presented at a recent meeting of the Eastern branch of the American Association of Economic Entomologists.

David Pimental, of Cornell University, discussed "New Treatment Methods for House Fly Control in Dairy Barns," and noted that the recommendation for fly control in dairy barns for New York State was for 0.25 percent lindane. It was found he said, that a resistance to lindane had been developed during the season in certain locations, a four-fold resistance having been established in as little as eight generations.

Mr. Pimental reported on the observations of the influence of sanitation in fly control in dairy barns, pointing out that it was found that neither sanitation alone nor the application of insecticide alone was as effective as a combination of both.

DDT-Resistant Flies Discussed

In another paper, Mr. Pimental reported that DDT-resistant flies showed a slower development in the larval stage than non-resistant flies. This was evidenced, he said, by a period of nine and one-half days from hatching to pupation for the larvae of a highly resistant strain in comparison with five days for those of a non-resistant strain. In studies of several strains, he

—Continued on page 67

Smith, Kline & French Vice-Presidents Named

The board of directors of Smith, Kline & French Laboratories, Philadelphia, has named three new vice-presidents. The newly-appointed executives are John L. Hammer, jr., former sales manager; Addison S. Ellis, former assistant to the vice-president, and F. M. Rivinus, jr., who

John L. Hammer, jr.

takes on his new duties with the parent company in addition to his position as president of the concern's foreign subsidiaries.

Mr. Hammer joined Smith, Kline & French in 1937 as an administrative assistant. He was appointed assistant to the vice-president in 1942, and became sales manager in 1947. Prior to his SK&F connection he was associated with several New York financial organizations, including Anderson, Black & Co., Fuerst & Co. and the Chase National Bank.

Mr. Ellis came to the company in 1936, and served subsequently as office manager, personnel manager and market research director. In 1947 he was named assistant to the vice-president. Mr. Rivinus, who this Fall was named president of Smith, Kline & French International Company and Smith, Kline & French Inter-American Corporation, two subsidiaries which handle SK&F's foreign business, joined the parent organization in 1938. He became executive vice-president of the foreign subsidiaries in 1946.

Commercial Solvents Named Agent for French Alcohol

Commercial Solvents Corporation, New York, has been named as agent for the Reconstruction Finance Corporation to expedite the movement from France to the United States of approximately 106,000,000 gallons of ethyl alcohol. Delivery is to be made during 1951.

Arrangements to purchase this material by the United States Government from the Government of France were completed in October. This alcohol will be used in the manufacture of butadiene to meet the demands of the accelerated synthetic rubber program.

Washington Talks It Over

By Ralph L. Cherry

A trickle of necessity certificates which will permit the quick amortizing of new facilities to produce essentials for defense or war is beginning to flow from the National Securities Resources Board. It is calculated to expand gradually from month to month, as the needs of the military become more certain over the next year, into a stream of several billions of dollars.

Emphasis at present is on expanding steel production, since this is basic to expansion of almost all other industries. But the board has a backlog of applications for expanding production in other industries, and these are being examined by the appropriate agencies and will go forward to the board for approval as the military comes up with requirement schedules.

Last week the board issued forty eight necessity certificates for rapid tax write-offs to expand defense facilities of eighteen steel and three refractories companies. The cost of the steel expansion program covered by the certificates is $469,266,000, raising to over $600,000,000 the total steel expansion authorized to date. The program will provide almost 7,000,000 tons of steel ingot capacity and 3,000,000 tons of coke capacity, and officials are urging upwards of another 13,000,000 additional tons of steel.

Any thought that this may be an easy way of expanding industry capacity at a minimum of cost in taxes however, is dispelled by the revelation that in giving approvals to the issuance of certificates, NSRB is considering the postwar possibilities of the expanded facility. The application forms carry a section covering probable postwar value of the facility and it is understood that NSRB is inclined to disallow full writeoff when the plant will have general use in the civilian economy.

Christmas Tree Fires

The Department of Agriculture isn't recommending the use of chemicals this year to make Christmas trees fire-resistant. It "got its fingers burned" doing this a while back, and it is now proposing only that the trees be set in water so that they will be less likely to dry out during the holiday period.

Investigations carried on at the Forest Products Laboratory at Madison, Wis., indicate that the use of fire-retardant chemicals often cause more harm than good, the department says. Since trees do not absorb chemicals as quickly as they absorb water, they dry out and become fire hazards. Many chemical solutions will also cause the needles to discolor and fall off in two to three days.

Arthur M. Sowder, extension forester, sums it all up with the statement that keeping a Christmas tree moist is the best way to reduce fire hazard. Saw off the butt end about an inch above the original cut and keep it standing in water during the entire time the tree is in the house.

DO Ratings Explained

The munitions board has prepared a circular explaining the use of DO ratings by the Department of Defense, which should be obtained and read by suppliers of chemicals and other products. It helps to clear up some of the questions that have been raised in the minds of suppliers when confronted with rated orders.

For example, it should be understood that there is no priority or preference among program code numbers. DO-05 does no take precedence over DO-06 or any other DO program code. The numerals merely identify the group into which the procurement item falls. The "DO" merely indicates that you have received a defense order subject to the provisions of NPA priorities regulation No. 2.

Manufacturers or suppliers who receive an order bearing one of the ratings DO-01 through DO-22, or DO-99 as provided in regulation No. 2, may extend the rating on their own purchase orders to obtain production materials to be physically incorporated in the procurement items or to replace inventories expended for that purpose. The DO-98 rating can not be used on purchase orders by private manufacturers to procure specified items of production equipment unless its use has been approved by the military departments as necessary for production on military orders.

Drugs Don't Click With NPA

Drug manufacturers have a kick to make to the National Production Authority. They don't think that the agency is taking the proper view of the importance of the industry to defense and the civilian economy and have started up a little campaign in support of greater recognition of its needs.

First off, the industry was plainly upset over the failure of NPA to give any consideration to the possible needs of the industry in cutting back on civilian aluminum consumption. Officials have admitted in private talks with visitors that they had not considered the needs of the drug industry specifically and have promised to make up for it in the appeals procedure under the aluminum order.

Now the manufacturers have discovered that, in the organization of the NPA chemicals division, drugs have been relegated to the status of a unit within the inorganics section, the smallest grouping possible in the NPA setup. That places the drug and pharmaceutical industry about six layers from the top.

During the last war, it will be recalled, the drug industry formed a small part of the Office of Civilian Supply until it was discovered how heavily the military leaned on the industry to carry on the war. It was then given a sectional status in the WPB Chemicals Bureau where it performed yeoman service to the country.

Maybe after a time the importance of the industry will become apparent to NPA also.

Left Hand Doesn't Know

December 18, the United States Air Force will open bids at Dayton, Ohio, to buy 240,000 pounds of calcium chloride.

December 26, the naval gun factory, Washington, will open bids on the sale of 200,300 pounds of calcium chloride.

Who was it said that what you don't know won't hurt you?

Beef Grades Revised

The Department of Agriculture has just given the meat dealers another excuse for raising the price of beef to consumers. Officials have revised the grades for beef so that, after the first of the year, consumers will have to pay prime prices for

—Continued on page 42

Foreign Trade Lists

Lists of foreign outlets and sources for chemicals and related materials and consumers goods, recently compiled by the Commercial Intelligence division of the United States Department of Commerce, include the following, which are available from the division at $1 a list for any one country:—

Ceramic manufacturers—Cuba.

Chemical importers, dealers—British Honduras.

Fertilizer manufacturers, exporters—Cuba.

Glass and glassware manufacturers, exporters—Indonesia.

Glue manufacturers—Uruguay.

Hospitals—Finland.

Naval store importers, dealers, producers, and exporters—France.

Paint and varnish importers, dealers—Philippines.

Paint, varnish and pigment manufacturers, exporters—Cuba.

Photographic supply dealers, photographers—Greece.

Spice exporters—Italy.

Textile industry—Syria; Uruguay.

Veneer and plywood manufacturers—Italy.

Mich. Chemical Ups Calcium Magnesium Chloride Solution

Michigan Chemical Corporation, St. Louis, Mich., has announced an increase of 6 percent in the base price of its dust-treatment grade of liquid calcium magnesium chloride (38 percent solution). The new price is $5.30 per ton, f.o.b. St. Louis. The advance was attributed to increased costs.

Blumberg Joins Conray

Joseph Blumberg, founder and former vice-president of the Lamex Chemical Corporation, which he directed for the past nine years, has joined Conray Products Company, New York. In his new post Mr. Blumberg will concern himself with the expansion of domestic and foreign sales of Conray's line of pharmaceutical and industrial chemicals.

Navy Selling Lubricating Oil

Among the items offered for sale in catalog B-90 by the Naval Supply Center at Norfolk, Va.—bids opening December 28—is a lot of 24,000 gallons of lubricating engine oil.

Munitions Board Views Critical Materials Need

Consideration is being given by the Munitions Board to the advisability of broadening its stockpiling activities to include critical materials that do not qualify for inclusion in the strategic materials classification. A survey is being made at the request of the so-called preparedness subcommittee of the senate armed services committee.

For the purposes of the study, critical materials are those items which have been, by experience, to be immediately necessary in large quantities for mobilization. Also, the critical materials stockpile is regarded as one which would be used to provide adequate quantities of those critical materials that would be required for the period from the beginning of large-scale mobilization until current production can meet the demands of that mobilization.

Meanwhile, President Truman asked Congress December 15 for an additional $1,834,911,000 for stockpiling operations, stating the "in view of the recent international developments the stockpiling program must be accelerated." If approved, the appropriations will raise to $2,923,911,000 funds that have been authorized for stockpiling.

The latest public listing shows that there are over eighty items which the Munitions Board considers to be of a strategic or critical classification. Most of them are in the metals or minerals field. For security reasons, however, the board has not broken down the list to show which are strategic and which are critical, or which presently being stockpiled and which are not.

The board was asked to complete its

—Continued on page 41

Shell Development Elects Dr. Evans Vice- President

Shell Development Company, New York, has elected Dr. T. W. Evans, director of research at the concern's Emeryville, Calif., laboratories, vice-president of the company.

Dr. Evans joined the Shell staff at Emeryville as a research chemist in 1930. In 1934 he went to Shell Chemical's alcohol plant at Martinez and was assistant superintendent during the plant's initial operations. He returned to Emeryville in 1936 and became an associate director of research six years later. In 1947 he was advanced to manager, then to director in 1949.

General Aniline Completes Polyvinyl Pyrrolidone Plant

General Aniline & Film Corporation, New York, has announced completion of new facilities at Grasselli, N. J., for the production of polyvinyl pyrrolidone. According to the announcement, additional facilities are nearing completion at the same location which will add substantial-production capacity and are expected to be in operation within six months.

Polyvinyl pyrrolidone is a synthetic colloid which was used as a basis of a blood plasma substitute in Germany during World War II and is currently serving this purpose in several European countries.

Monsanto Co. Offering Diethyl Acetylsuccinate

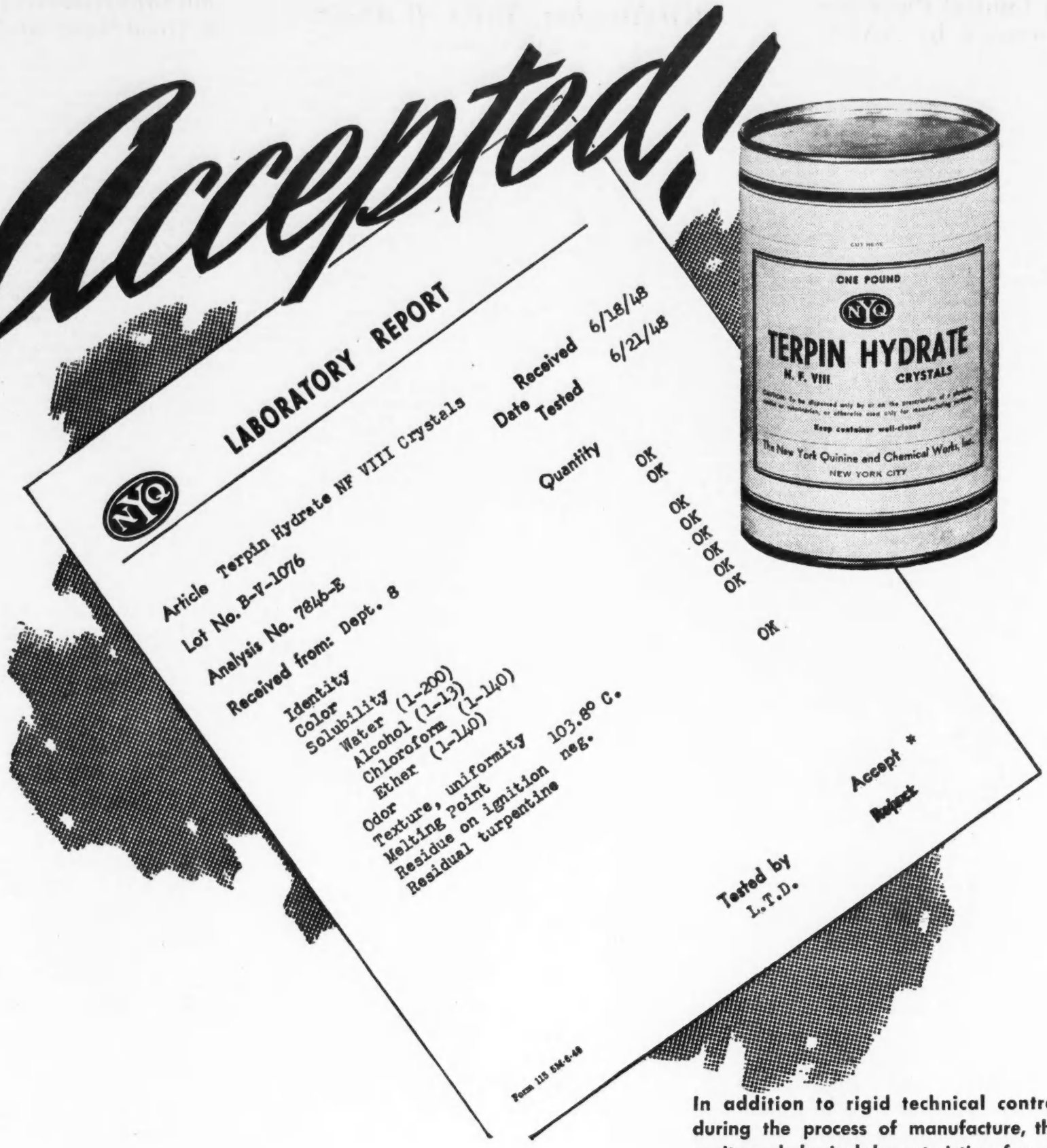
Diethyl acetylsuccinate is available for the first time in research quantities from Monsanto Chemical Company, it was announced December 11 by L. F. Loutrel, jr., development director for the company's Merrimac division.

He described the product as a beta-keto ester, a highly reactive chemical useful in the synthesis of a wide range of organic compounds, including many organic acids and ketones. Possible compounds of particular interest, Mr. Loutrel said, are the pyrazolones, which are useful as intermediates in azo dyes, and certain coumarins which are fluorescent in alkaline solution. The product also has uses as an intermediate in the synthesis of compounds with biocidal activity.

Pennsalt Develops Three New Fluorine Chemicals

Pennsylvania Salt Manufacturing Company, Philadelphia, has announced the availability in experimental quantities for evaluation purposes of the first three of a series of organic sulfonyl fluorides. They are benzenesulfonyl fluoride, parachlorobenzen sulfonyl fluoride and metanitrobenzenesulfonyl fluoride.

Accepted!



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SPE Maps Program For Jan. 18-20 Meeting

The Society of Plastics Engineers, which will hold its seventh annual national technical conference January 18 to 20 at the Statler hotel, New York, has revealed the details of its program. The theme of the conference is "Plastics Shape the Future."

The morning session on January 18 will be presided over by Stanley Bindman, of The Jamison Plastics Corporation and co-chairman of the conference committee. The following talks will be presented:—"Underwriters' Laboratories' Viewpoint on the Use of Plastics," Karl S. Geiges, associate electrical engineer, Underwriters' Laboratories, Inc., New York; "Properties, Applications and Processing of Rigid Vinyls," C. E. Parks, manager of the product development laboratory, B. F. Goodrich Chemical Company, and "Plastics Industry in Great Britain," Howard V. Potter, chairman and managing director of Bakelite, Ltd., London, England, representing the British Plastics Federation.

The SPE annual luncheon and business meeting will be held at noon on January 18. Guest speaker will be Frank H. Carman, in charge of plastics materials activities for the Manufacturing Chemists Association, Washington, D. C. Mr. Carman will discuss "Materials Supply Prospects in 1951."

The afternoon session on the eighteenth will be chaired by Dr. Russell B. Akin, of E. I. duPont de Nemours & Co., Wilmington, Del., and 1950 president of the Newark section of SPE. The following talks will be given:—"A Family of High-Speed Thermoset Plastic Molding Materials," Michael A. Brown, jr., manager of sales

—Continued on page 85

MCA Appoints Committee To Make Manpower Study

The Manufacturing Chemists Association has appointed a standing committee to consider manpower problems arising out of the war emergency. The newly-formed group will hold its first meeting January 10 at the Chemists Club, New York, at which time it is expected that a chairman will be named.

MCA had a similar committee operating during World War II, but disbanded the group after the cessation of hostilities. Members of the newly-named committee are the following:—

H. B. DeVinny, Davison Chemical Corporation, Baltimore, Md.; E. I. duPont, E. I. duPont de Nemours & Co., Wilmington, Del.; D. O. Mason, General Chemical Division, Allied Chemical & Dye Corporation, New York; R. F. McCoole, Monsanto Chemical Company, St. Louis, Mo.; C. F. Prutton, Mathieson Chemical Corporation, Baltimore, Md.; P. B. Rauschelbach, American Cyanamid Company, New York; J. K. Shansey, Union Carbide & Carbon Corporation, New York, S. L. Starks, Dow Chemical Company, Midland, Mich.

Association Meetings

American Drug Manufacturers Association, Greenbrier hotel, White Sulphur Springs, W. Va., April 30-May 3.

American Pharmaceutical Association, Buffalo, N. Y., August 26-31.

American Pharmaceutical Manufacturers Association, Boca Raton, Fla., April 2-4.

American Society for Testing Materials, spring meeting and committee week, Cincinnati, Ohio, March 5-9; annual meeting, Atlantic City, N. J., June 18-22.

American Society of Perfumers, Advertising Club, New York, December 20.

BIMS of New York, annual dinner, New York Athletic Club, New York, January 25.

Chemical Specialties Manufacturers Association, Drake hotel, Chicago, Ill., April 29-May 1.

Manufacturing Chemists Association, joint outing with SOCMA, Greenbrier hotel, White Sulphur Springs, W. Va., June 14-16.

Metal Powder Association, Cleveland hotel, Cleveland, Ohio, April 25-26.

National Agricultural Chemicals Association, Spring meeting, Flamingo hotel, Miami Beach, Fla., April 4-6.

National Wholesale Druggist's Association, annual meeting, Shamrock hotel, Houston, Tex., October 13 to 18.

Northeastern Weed Control Conference, New Yorker hotel, New York, January 3-5.

Packaging Institute, annual forum, Commodore hotel, New York, October 22-24.

Plant Maintenance Show, Auditorium, Cleveland, Ohio, January 15-18.

Proprietary Association, annual meeting, Biltmore hotel, New York, May 14-16.

Society of Plastics Engineers, national technical conference, Statler hotel, New York, January 18-20.

Society of the Plastics Industry, Greenbrier hotel, White Sulphur Springs, W. Va., May 24-25.

Synthetic Organic Chemical Manufacturers Association, Commodore hotel, New York, January 12; joint outing with MCA, Greenbrier hotel, White Sulphur Springs, W. Va., June 14-16.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 15-17.

Oils, Fats Output, Use: October

Statistics on production and consumption of oils and fats, including raw materials and primary products have been compiled by the Bureau of Census, Department of Commerce, for the month of October. The data are are follows:—

PRIMARY PRODUCTS

	Production (Pounds)	Consumption (Pounds)	Stocks Oct. 31 (Pounds)
Animal foots from refining, 100% basis	2,452,000	2,539,000	2,278,000
Babassu oil, crude		2,789,000	3,550,000
refined	1,994,000	1,919,000	473,000
Castor oil, No. 1	8,901,000	8,926,000	[8]9,952,000
No. 3, crude	2,511,000	3,368,000	[8]6,398,000
Chinawood or tung oil		8,590,000	30,500,000
Coconut oil, crude	60,334,000	56,479,000	[8]61,989,000
refined	33,316,000	28,553,000	8,962,000
Cod and codliver oil	335,000	1,459,000	6,262,000
Corn oil, crude	23,113,000	23,022,000	13,661,000
refined	21,095,000	19,344,000	6,365,000
Cottonseed oil, crude	194,584,000	156,588,000	89,468,000
refined	143,075,000	112,573,000	107,144,000
Fish and marine mammal foots, 100% basis	[8]	[8]	[8]
Fish oil, refined	[8]	4,104,000	3,633,000
Fish oil, not specified, except liver oil	847,000	640,000	4,526,000
Fishliver oil, not specified	88,000	562,000	1,014,000
Grease, other than wool	52,570,000	58,114,000	84,342,000
Lard, rendered (4)	185,000,000	[5]	108,111,000
refined (4)	114,000,000	7,430,000	20,511,000
Linseed oil, raw	67,805,000	53,795,000	557,668,000
refined	22,593,000	22,456,000	30,350,000
Marine mammal oil, not specified		2,495,000	[8]
Menhaden oil	3,661,000	4,899,000	15,955,000
Neatsfoot oil	203,000	387,000	1,053,000
Oitica oil	[5]	694,000	4,598,000
Olive oil, edible	[5]	199,000	3,830,000
inedible	[5]	70,000	422,000
sulphur foots	[5]	[5]	2,010,000
Palm oil, crude	[5]	3,942,000	[9]24,062,000
refined	[5]	[5]	575,000
Palm kernel oil, crude	[5]	3,154,000	[5]
refined	[5]	[5]	[5]
Peanut oil, crude(6)	7,922,000	7,066,000	3,068,000
refined	6,669,000	5,416,000	4,991,000
Perilla oil	[5]	[5]	[5]
Rapeseed oil, crude	[5]	266,000	376,000
refined	[5]	309,000	1,538,000
Sardine (pilchard) and herring oil	18,018,000	10,412,000	30,202,000
Sesame oil, crude	[5]	[5]	[5]
refined	[5]	[5]	228,000
Soybean oil, crude	189,988,000	164,751,000	65,874,000
refined	152,890,000	156,192,000	51,201,000
Sperm oil	[7]	[7]	[9]9,995,000
Tallow, edible	8,838,000	4,989,000	4,997,000
refined	1,202,000	1,110,000	602,000
inedible	105,319,000	124,282,000	156,713,000
refined	30,242,000	29,804,000	7,568,000
Vegetable oil, not specified, crude	2,537,000	2,435,000	10,296,000
refined	2,880,000	4,535,000	1,388,000
Vegetable foots, 100% basis	23,450,000	18,068,000	31,668,000
Whale oil	12,000	[7]	[8]
Wool grease	1,381,000	[5]	[9]2,334,000

PRIMARY PRODUCTS, EXCEPT OIL

	Production	Shipments and transfers	Stocks Oct. 31
Cottonseed cake and meal (tons)	275,861	215,380	213,959
hulls (tons)	141,176	126,852	96,794
linters (running bales)	[9]206,353	188,590	[10]89,772
hull fiber (lbs.)	2,549,000	2,537,000	961,000
motes and grabbots (lbs.)	3,369,000	1,923,000	4,091,000
Soybean cake and meal (tons)	450,886	444,857	41,253
lecithin (lbs.)	1,213,739	1,191,468	369,038
edible soy flour, full fat (tons)	409	[8]	[8]
other (tons)	4,644	4,879	930
industrial soy flour (tons)	1,644	1,973	331
Other cake and meal—			
Copra (tons)	15,580	11,384	17,764
Corn germ (tons)	15,878	16,225	1,078
Flaxseed (tons)	63,836	59,322	60,330
Olive (tons)	[5]	[5]	[5]
Peanuts(1) (tons)	5,916	[5]	3,155
Tung nut (tons)	[11]	[11]	[11]
Other (tons)	4,367	3,748	5,412
Castor beans (tons)	6,817	5,868	1,565

SECONDARY PRODUCTS

	Production (Pounds)	Consumption (Pounds)	Stocks Oct. 31 (Pounds)
Animal fat and oil fatty acids	18,862,000	18,634,000	14,219,000
Castor oil, chemically dehydrated	4,366,000	3,368,000	6,920,000
Deodorized oil(12)	24,703,000	8,643,000	7,760,000
Fatty acid stock, including spent and salvaged oils and fats, palm oil, refuse, etc. (100% fatty acid basis)	408,000	1,367,000	1,891,000
Fatty acids from fractioning or pressing—			
Oleic acid	8,237,000	5,352,000	[14]8,294,000
Stearic acid	6,831,000	5,852,000	[13]10,007,000
Other acids	2,422,000	[8]	2,908,000
Fish and marine mammal fatty acids	789,000	839,000	1,900,000
Glycerin, chemically pure (100% basis) (15)	13,435,000	8,363,000	19,368,000
crude (100% basis) (16)	23,113,000	23,401,000	12,992,000
high gravity and yellow distilled (100% basis)	8,222,000	8,850,000	13,070,000
Grease oil and lard oil	5,727,000	3,133,000	6,501,000
Hydrogenated oil and fats, edible—			
Cottonseed	38,927,000	37,705,000	16,411,000
Soybean	51,709,000	47,463,000	15,845,000
Other	9,214,000	5,302,000	3,701,000
Inedible—			
Animal	4,755,000	3,155,000	3,571,000
Fish	[8]	3,746,000	4,749,000
Vegetable	[8]	436,000	1,324,000
Oleomargarine	73,940,000	[8]	14,676,000
Oleo oil	4,990,000	391,000	2,476,000
Shortening	142 118,000	1,054,000	85,863,000
Solid fatty acids produced by splitting hydrogenated fats and oils or by hydrogenation of fatty acids	7,427,000	1,486,000	[13]3,321,000
Stearin, animal, edible	2,273,000	1,202,000	2,251,000
inedible	2,016,000	1,372,000	2,115,000
vegetable oil, winter	9,444,000	6,410,000	8,457,000
Tall oil, crude	34,102,000	22,965,000	27,437,000
refined, including distilled and fractionated tall oil	12,771,000	6,539,000	15,261,000
Tallow oil	742,000	722,000	2,423,000
Vegetable oil fatty acids from foots and other than from foots	16,236,000	14,132,000	22,908,000
Winterized oil	46,065,000	22,367,000	22,745,000

RAW MATERIALS AT MILLS

	Receipts (Tons)	Crushings (Tons)	Stocks Oct. 31 (Tons)
Castor beans	16,244	12,600	9,687
Copra	46,942	45,619	17,740
Corn germs	30,036	30,203	1,018
Cottonseed	1,118,717	619,435	971,201
Flaxseed	125,726	95,894	172,952
Olives	[11]	[11]	[5]
Peanuts,(1) shelled	[5]	8,434	[5]
unshelled	[5]	1,555	[5]
Soybeans	2,272,819	584,257	1,763,070
Tung nuts	[5]	[5]	[5]
Other	6,454	6,798	1,411

[1] Data collected by the Bureau of Agricultural Economics.
[2] Included in "other vegetable oils" to avoid disclosure of individual operations.
[3] Data for stocks of crude palm oil, crude coconut oil, castor oil No. 1 and No. 3, and sperm oil are on a commercial stocks basis and do not include figures for stockpiles of strategic oils.
[4] Data on production collected by the Department of Agriculture. Refined lard production data represent Federally Inspected Lard. Lard stocks include quantities held in refrigerated storage amounting to 51,449,000 pounds for October 31, as reported by the Department of Agriculture.
[5] Data not available.
[6] Held by wool scourers.
[7] Included in "other marine mammal oil."
[8] Not shown to avoid disclosure of individual operations.
[9] Includes 57,544 bales, first cut, 132,481 bales second cut, and 16,328 bales mill run. Average gross bale weights—Total, 578.3; first cut, 573.4; second cut, 579.4, and mill run, 586.3 pounds.
[10] Includes 38,678 bales, first cut, 43,299 bales second cut, and 7,795 bales mill run.
[11] Included in "other" to avoid disclosure of individual operations.
[12] Winterized-deodorized oil, hydrogenated-deodorized oil and cooking and salad oil not included.
[13] October data include 2,348,000 pounds held by producers.
[14] October data include 2,406,000 pounds held by producers.
[15] October data include 2,034,000 pounds held by producers.
[16] Includes data for synthetic glycerin.

ACS Names Britton 1952 President-Elect

Dr. Edgar C. Britton, director of the organic research laboratory of the Dow Chemical Company, Midland, Mich., has been chosen president-elect of the American Chemical Society, it was announced last week. He will head the society in 1952. President for 1951 will be Dr. N. Howell Furman, Russell Wellman Moore professor of chemistry at Princeton University, who will take office January 1, succeeding Dr. Ernest H. Volwiler, president of Abbott Laboratories, North Chicago, Ill.

Dr. Edgar C. Britton

Dr. Britton, elected in a national ballot of the society's 63,000 members was an instructor in organic chemistry at the University of Michigan from 1918 to 1920, at which time he joined the Dow laboratory staff as an organic chemist. During his thirty years with Dow, he has become not only head of the company's organic research laboratory, but also vice-chairman of the executive research committee. He also is director and secretary of the board of the Dow Corning Corporation.

More than 260 patents for new synthetic organic chemicals have been issued in Dr. Britton's name. His contributions include improved methods of producing carbolic acid and acetic acid as well as the development of compounds for use as insecticides, fungicides, herbicides, pharmaceuticals, and catalysts, or chemical accelerators, for the production of butadiene from butylene gas.

A member of numerous scientific groups in addition to his ACS activities, Dr. Britten was a section representative of the society's national council from 1933 until this year. He has been director-at-large of the ACS since 1949. He served as acting chairman of the society's division of organic chemistry in 1935 and as chairman of the committee on revision of the constitution and bylaws in 1947.

In addition to the naming of Dr. Britton, the ACS membership also elected two new members of the society's board of directors for three-year terms. Professor Arthur C. Cope, chairman of the department of chemistry of the Massachusetts Institute of Technology, was chosen to represent the ACS first district, comprising the New England states and Canada. Professor W. Conard Fernelius, head of the department of chemistry at the Pennsylvania State College, was elected in the third district, which embraces Pennsylvania, Delaware and Ohio.

SAACI Nominating Committee Picks Slate

The nominating committee of the Salesmen's Association of the American Chemical Industry has announced its slate of officers for 1951. They are as follows:—

President, Paul W. Hiller, Innis, Speiden & Co.; vice-president, Edward W. Bush, Bush Aromatics Division, Dow Chemical Company; treasurer, Robert J. Milano, Millmaster Chemical Company, and secretary, Warren F. Schumacher, J. T. Baker Chemical Company.

John F. Henry, Adams-Henry Chemical Company, and James E. Spencer, Harshaw Chemical Company, have been nominated to the board of directors for three-year terms. John J. Butler has been named to the board for a two-year period to serve out the unexpired term of Mr. Schumacher.

A new record for attendance at the association's annual Christmas party was established at the Astor hotel, New York, December 13, when more than 900 men of the industry participated. Mr. Henry was in charge of arrangements.

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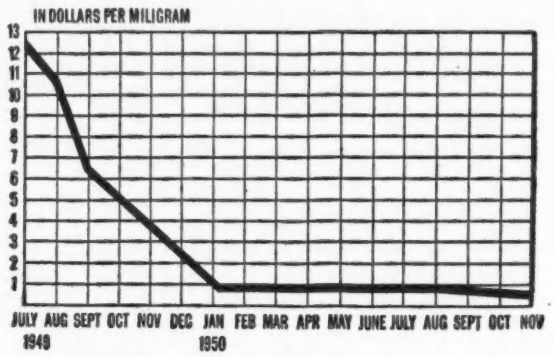

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Vitamin K_1
Alpha Tocopherol
Alpha Tocopheryl Acetate
Choline

MERCK & CO., INC.
Manufacturing Chemists
RAHWAY, NEW JERSEY

Current Market Quotations

Chemicals and Related Materials

December 15, 1950

Unless otherwise indicated, listings are first-hand quotations on large lots, f.o.b. New York. Changes and trends are noted in the market reports, with other informative comment. The locations of these reports are given in the table of contents on page 4. The figures in the two columns do not represent bid and asked prices nor a range over the week. They are the quotations prevailing on the date above, on the basis of differences in one or more of these factors:—Quantity, quality, locality, individual supplier's views.

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A

Acacia (see Gum, arabic).
Acenaphthene, below 92.5 C., m.p., dms., works lb .40 - —
above 92.5 C. m.p. dms., works, lb. .50 - —
Acetaldehyde, 99%, dms., c.l., frt. equald. lb. .12½- .13
l.c.l., frt. equald. lb. .13½- .13¾
tanks, frt. equald. lb. .10½- .11
Acetaldol (see Aldol).
Acetamide, tech. fib., dms. lb. .45 - —
Acetanilide tech. bbls., c.l., dlvd lb. .24½- —
l.c.l., ton lots lb. .25½- —
smaller lots lb. .28½- —
USP, bbls., 2,000-lb. lots lb. .50 —
smaller lots lb. .56 - —
Acetic anhydride dms., c.l., frt. alld. E. lb. .15 - —
l.c.l., frt. alld. E. lb. .16½- —
tanks, frt. alld. E. lb. .13½- —
Acetoacetamilide, bbls., dlvd. lb. .69½- —
fib. dms., c.l., dlvd. lb. .68½- —
l.c.l., dlvd lb. .69½- —
Acetoacetorthoanisidide, fib. dms., works, 500 lbs. or more lb. 1.50 - —
smaller lots, same basis lb. 1.75 - —
Acetoacetorthochloranilide, bbls., dlvd lb. 1.15 - —
fib. dms., c.l., dlvd lb. 1.14 - —
l.c.l., dlvd lb. 1.15 - —
Acetoacetorthotoluidide, bbls., dlvd. lb. .74½- —
fib. dms., c.l., dlvd lb. .73½- —
l.c.l., dlvd lb. .74½- —
Acetoacetparaphenetidide, dms., 500 lbs. or more, works lb. 1.65 - —
smaller lots same basis lb 1.90 - —
Acetone, CP, dms., c.l., dlvd. lb. .10¼- .11¾
l.c.l., dlvd. lb. .11 - .12½
tanks, dlvd lb. .08½- .10
Methyl (see M).
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin USP, bbls., works, frt. equald. lb. 1.15 - 1.38
Acetophenone, ens., dms lb. 1.35 - 1.83
tech., dms., l.c.l., works lb. .75 - —
Acetyltributyl citrate, tech. dms lb. .35½- —
smaller pkgs lb. .71 - —
Acetyltriethyl citrate, tech. dms lb. .35½- —
smaller pkgs lb. .71 - —
Acid, abietic, com'l, dms., c.l., works lb. .10 - —
l.c.l., works lb. .1145- —
eryst., dms., c.l., works lb. .05½- —
l.c.l. works lb. .06 - .06½
Acetic, com'l or redist., 28%, bbls. 100 lbs. 3.90 - —
56%, bbls 100 lbs. 6.50 - —
70%, bbls 100 lbs. 7.75 - —
80%, bbls 100 lbs. 8.60 - —
glacial, synthetic, CP, dms., works 100 lbs. 14.50 - —
cbys., inclusive, works 100 lbs. 24.00 -26.00
USP, cbys., works 100 lbs. 15.00 -19.00
tech., dms., c.l., works 100 lbs. 10.50 - —
l.c.l., works 100 lbs. 11.00 - —
tanks, works 100 lbs. 9.00 - —
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP special, bbls., makers primary distrib., point of ship't, 1,000-lb. lots lb. .60 - —
standard, fine, cryst., gran., (30-40 mesh) powd. (60 mesh), bbls. same basis, lb. .55 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Aconitic, 5,000 lbs. 1 shipt. dms., lb. .49 - —
smaller lots, dms lb. .49½- .54½
Adipic, fib dms., works lb. .26½- —
Aminoacetic NF, bbls., frt. adjusted lb. 1.50 1.75
Anthranilic resub., bbls lb. 2.10 —
tech., bbls., frt. equald lb. 1.21 - —
Arsenous, tech (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic, USP, dms., 25-50 kilo lots kilo. 24.50 - —
10-kilo lots kilo. 24.85 - —
5-kilo lots kilo. 25.25 - —
bots., kilo lots kilo. 25.50 - —
500-gram lots kilo. 26.00 - —
Battery, cbys., c.l., E. works, 100 lbs. 2.40 - —
l.c.l., E., works 100 lbs. 2.80 - 8.20
Benzoic, tech. bbls. dms., 100 lbs. or more lb. .40 - .43
USP, bbls., dms., 100 lbs. up lb. .50 - .54
Betahydroxynaphthoic bbls., works lb. 1.29 - 1.39
Boric, tech. 99½%, cryst., bgs., c.l., works ton. 118.25 - —
ton lots ex whse, N. Y. or Chi. ton. 164.00 - —
less ton lots, same basis, ton. 169.00 - —
bbls., c.l., works ton. 142.75 - —
ton lots, ex whse., N. Y. or Chi. ton. 188.50 - —
less ton lots, same basis, ton. 193.50 - —
bulk, c.l., works ton. 114.25 - —
gran., bgs., c.l., works ton. 93.25 - —
ton lots, ex whse., N. Y. or Chi. ton. 139.00 - —
less ton lots, same basis, ton. 144.00 - —
bbls., c.l., works ton. 117.75 - —
ton lots, ex whse., N. Y. or Chi. ton. 163.50 - —
less ton lots, same basis, ton. 168.50 - —
bulk, c.l., works ton. 89.25 - —
Acid, boric, powd., bgs., c.l., works, ton. 98.25 - —
ton lots, ex whse., N. Y. or Chi. ton. 144.00 - —
less ton lots, same basis, ton. 149.00 - —
bbls., c.l., works ton. 122.75 - —
ton lots, ex whse., N. Y. or Chi. ton. 168.50 - —
less ton lots, same basis, ton. 173.50 - —
bulk, c.l., works ton. 94.25 - —
USP $25 per ton higher.
Broenner's, bbls lb. 1.34 - 1.47
Butyric, 99%, dms. c.l. works lb. .36½- —
l.c.l., works lb. .37 - —
tankcars, works lb. .33 - —
Cacodylic, bots lb. 10.00 -11.00
Camphoric, natural, dms lb. 4.00 - 4.75
synth., dms lb. 4.00 4.75
Capric, 90%, dms., l.c.l. lb. .47 - —
Caprylic, 90%, dms., l.c.l. lb. .47 - —
Castor oil, split, dms lb. .33½- .34
Cassello, dms., frt. alld lb. 1.44 - —
Chicago, bbls., frt. alld lb. 2.92 - 3.21
Chlorosulphonic, dms., c.l., works lb. .039 - —
l.c.l., works lb. .044 - .059
tanks, works lb. .034 - —
Chromic, 99½-99¾%, dms., c.l. works lb. .27 - —
l.c.l., works lb. .27½- .28¼
USP (see Chromium trioxide).
Cinnamic, refd. bots lb. 2.50 4.00
Citric, anhyd., gran., fine gran., dms., c.l. lb. .26½- —
10,000 lbs. 1 ship't. lb. .27 - —
smaller lots lb. .27½- —
kgs. lb. .28½- —
Anhydrous citric acid powder, ½c. per lb. higher.
USP cryst., dms., c.l. lb. .27½- —
10,000 lbs., 1 ship't. lb. .28 - —
smaller lots lb. .28½- —
kgs. lb. .29½- —
gran., fine gran., dms., c.l. lb. .24½- —
10,000 lbs., 1 ship't. lb. .25 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —
USP citric acid powder ½c. per lb. higher.
Cleve's, mixed, bls lb. .72 - .79
Coconut oil, dist., dms lb. .26½- .27¾
double dist., dms lb. .28½- .29¾
Cottonseed oil, dist., dms lb. .17½- .18¾
double dist., dms lb. .18 - .19¼
Cresylic, dom., coaltar, 50% above 207°C, non-ret dms., c.l., frt. equald. gal. 1.31 - 1.36
l.c.l., non-ret. dms., same basis lb. 1.34 - 1.49
ret. dms. c.l. same basis gal. 1.28 - —
l.c.l., same basis gal. 1.33 - —
Acid, cresylic, dom., coaltar, 50% above 207°C, tanks, same basis gal. 1.20 - 1.25
204° to 207° C, non-ret. dms., c.l., same basis gal. 1.36 - —
l.c.l., same basis gal. 1.39 - —
ret. dms. c.l. same basis gal. 1.33 - —
l.c.l., same basis gal. 1.36 - —
tanks, same basis gal. 1.25 - —
petroleum, 195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —
200° C to 222° C, tanks, Wilmington, Cal gal. .58 - .63
211° C to 236° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 - —
l.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —
220° C to 242° C, tanks, Wilmington, Cal gal. .50 - .53
237° C to 265° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .59 - —
l.c.l., same basis gal. .61 - .63
tanks, same basis gal. .46 - —
245° C to 298° C, tanks, Wilmington, Cal gal. .46 - —
imported, coaltar 75% at 215°C or over, dms., c.i.f. gal. 1.25 - 1.30
Crotonic, fib dms works lb 29 —
Cyanoacetic, tech bbls lb 90 1.25
Desoxycholic, bots lb. 22.00 -25.00
Dichlorophenoxyacetic, (see under "D" 2, 4-D)
Diethylbarbituric (see Barbital)
Diglycolic, bgs., works lb. .14 - —
Ethylhexoic, dms., c.l., works lb. .33 - —
l.c.l., works lb. .33½- —
tanks, works lb. .31½- —
F, crude, paste, bbls., works lb. 1.52 - 1.67
Folic, bots, fib cons. kilo or more gram 2.00 —
Formic, 85%, cbys, c.l., works lb. .14 - —
l.c.l., works lb. .14½- .20
90%, cbys., c.l., works lb. .14½- —
l.c.l., works lb. .15 - .20¼
Fumaric, tech., bbls., dms lb. .37 - .38
Gallic, NF VII, bbls., 1,000-lb. lots lb. 1.80 —
smaller lots lb. 1.83 1.87
technical, bbls., 1,000-lb. lots lb. 1.58 —
smaller lots lb. 1.61 1.65
Gamma dry ground bbls., frt. alld lb. 1.37 - 1.50
paste, bbls., frt. alld lb. 1.32 - 1.45
Gluconic, tech., 50%, bots lb. .23 - .31
dms lb. .14 —
kgs. lb. .16 —
Glutamic, laevo, 99%, fiber dms. 100 lb. lots, works lb. 2.45 - —
25 lb. lots lb. 2.60 - —

Abbreviations
Used in OPD Market Quotations

ACS	American Chemical Society	dist.	distilled	neut.	neutral
		dextro.	dextrorotatory	NF	National Formulary
alld.	allowed	distr.	distributor		
ammo.	ammonia	djns.	demijohns	nom.	nominal
amorph.	amorphous	dlvd.	delivered	No.	number
anhyd.	anhydrous	dms.	drums	ord.	ordinary
a.p.a.	available phosphoric acid	dom.	domestic	oz.	ounce
		E.	east	Pac.	Pacific
artif.	artificial	e.p.	end point	pf.	proof
ASTM.	American Society for Testing Materials	equald.	equalized	phos.	phosphate
		F.	fahrenheit	photo.	photographic
Be.	Baume	ferment.	fermentation	pkgs.	packages
bgs.	bags	ffa.	free fatty acid	powd.	powdered
bbls.	barrels	ffc.	free from chlorine	precip.	precipitated
bls.	bales			prod.	producer
bots.	bottles	fib.	fiber	pt.	point
b.p.	boiling point	f.o.b.	free on board	pulv.	pulverized
b.p.l.	bone phosphate of lime	F.P.A.	free of prussic acid	purif.	purified
		frt.	freight	redist.	redistilled
b.r.	boiling range	fus.	fused	refd.	refined
bxs.	boxes	gal.	gallon	refy.	refinery
C.	centigrade	gran.	granular	reg.	regular
cbys.	carboys	grd.	ground	resub.	resublimed
CD	completely denatured	i.&a.	iron and aluminum	ret.	returnable
				SD.	specially denatured
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	s.d.	single distilled
				S. E.	southeast
cks.	casks	imp.	imported	secs.	seconds
c.l.	car lots	incl.	included	s.g.	specific gravity
cns.	cans	indust.	industrial	ship't	shipment
col.	color			solut.	solution
com'l	commercial	kgs.	kegs	s.u.	standard unit
conc.	concentrated	lacq.	lacquer	synth.	synthetic
CP	chemically pure	lb.	pound	tech.	technical
cps.	centipoises	l.c.l.	less than car lots	USP.	U. S. Pharmacopoeia
cryst.	crystal	liq.	liquid		
cs.	cases	m.a.p.	mixed anilin point	vis.	viscosity
ctns.	cartons			VM&P.	varnish makers & painters
cyls.	cylinders	min.	minimum		
dbl.	double	m.p.	melting point		
denat.	denatured			W.	west
dest.-dist.	destructive-distilled	N.	nitrogen	w.w.	water white
		nat.	natural	whse.	warehouse

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown, gives the price of 2,000 pounds of the material.

Acid, glycerophosphoric, 35%, dms., works lb. 2.23 - 2.33
Glycolic (see Acid, hydroxyacetic).
H, 100% basis, bbls., works lb. .80 - —
Hydriodic, 45-47%, cbys lb 2.57 2.59
57%, cbys lb 2.86 - —
Hydrobromic, medicinal, 48%, cbys., dlvd. E lb. .43 - —
tech., 48%, cbys. dlvd E lb. .34 .36
Hydrochloric (see Acid, muriatic).
Hydrocyanic, cyls., works lb. 1.00 - —
dilute, NF, 2%, 5-lb bots lb. .37 - —
Hydrofluoric, anhyd., cyls., works, lb. .19 - .19¼
tanks, works lb. .18 - —
30%, wood or rubber, dms., works lb. .08½- .09
70%, steel dms., works lb. .12¼- .14¼
Hydrofluosilicic 30-35%, bbls., works lb. .07 - —
Hydroxyacetic, tech., 70%, bbls., non-return., Phila lb. .064 - —
tanks, Belle W Va., 100% basis lb. .065 - —
Hypophosphorous, purif., 50%, cbys, lb 1.30 1.32
USP, cbys lb. 78 —
J, bbls., works 100% basis lb. 2.50 2.85
Koch, bbls., frt. alld lb. .64 - —
L, bbls., frt. alld lb. 1.25 - —
Lactic edible 50% bbls., 20 or more lb. .20 - —
smaller lots lb. .20½- .21
80%, bbls., 5 bbls or more lb. .3640- —
less than 5 bbls lb. .3690- —
plastic grade 50% bbls., 20 or more works lb. .21¾- —
1 to 19 lb. .22¼- .22¾
80%, bbls., 5 or more lb. .3865- —
tech., 22% bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., works 100 lbs. 7.20 -12.20
44%, bbls., c.l., works 100 lbs. 11.95 - —
l.c.l., bbls., works 100 lbs. 12.35 - —
cbys., works 100 lbs. 12.85 -17.85
NF, 85%, cbys lb. .85 - .90
Laurent's, bbls lb. .60 - .87
Lauric, 90-95% dms lb. .32½- .33
60% dms lb. .29½- .30
Linseed oil, reg., dist., dms lb. .2260- .23
water, white, dms lb. .2560- .26
Maleic, powd., dms lb. .37 - .38
Anhydride (see M).
Malic, dms lb. .45 - —
Mandelic, NF dms., 1,000-lb. lots lb. 1.85 —
smaller lots lb. 1.90 - 2.10
Metanilic dms., works lb. .57 - —
Methacrylic, dms., c.l., and truckloads, works lb. .76 - —
less than truckload, works lb. .76½- .80
Molybdic, dms. 85%-92% works lb. .88 - —
Monochloroacetic purified flake, 99%, dms. lb. .23½- .25¼
tech., flake, 96-97%, dms. lb. .20 - .22
Muriatic, 18°, cbys., c.l., works 100 lbs. 2.45 - —
l.c.l., works 100 lbs. 2.75 - 8.55
tanks, works ton. 31.00 - —
20°, cbys., c.l., works 100 lbs. 2.70 - —
l.c.l., works 100 lbs. 3.00 - 8.80
tanks, works ton. 33.00 - —
22°, cbys., c.l., works 100 lbs. 3.40 - —
l.c.l., works 100 lbs. 3.50 - 4.30
tanks, works ton. 38.00 - —
CP USP, consumers, cbys., extra c.l., works lb. .11¾- —
l.c.l., same basis lb. .13¼- .13¾
5 pint bottles extra, cs., c.l., same basis lb. .16¾- —
l.c.l., same basis lb. .18¼- .24¼

Acid, muriatic, CP, USP, prices to dealers 1½c. per lb. less.

Myristic, dms., l.c.l lb. .38 - —
Naphthenic 220-230 acidity, dms., works lb. .14 - —
tanks, works lb. .12 - —
230-240 acidity, dms., works lb. .22 - —
tanks, works lb. .19 - —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol (1)-5-sulphonic (see Acid L)
Naphthol(1)-5-sulphonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma)
(5)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-3-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broenner's)
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms., frt. alld lb. .97 - 1.05
Nicotinic, USP, dms., frt adjusted kilo. 9.00 - 9.30
Nicotinic amide (see Nicotinamide).
Nitric 36° cbys. c.l. E. works 100 lbs. 5.00 - —
l.c.l., E. works 100 lbs. 5.30 -11.10
38° cbys. c.l., E. works 100 lbs. 5.50 - —
l.c.l., E. works 100 lbs. 5.80 -11.60
40° cbys. c.l., E. works 100 lbs. 6.00 - 6.50
l.c.l., E. works 100 lbs. 6.30 -12.10
42° cbys., c.l., E. works 100 lbs. 6.50 - 7.00
l.c.l., E. works 100 lbs. 6.80 -12.60
CP NF, consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15½
5 pint bottles extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .19¼- —

Acid, Octoic—Alcohol, Phenylethyl

Acid, octoic (see Acid, ethylhexoic).
Oleic (see Oil red).
Oleum (see Acid, sulphuric, fuming).
Orthocresotinic, dms., ton lots, works lb. .62 - —
smaller lots, works lb. .64 - —
Oxalic, bbls., c.l., works lb. .16¼- —
10,000 lbs., works lb. .16½- —
smaller lots, works lb. .17½- —
Palm oil, white dist., dms lb. .21¼- .21¾
Para-aminobenzoic, USP XIV, dms., 100 lbs. or more, works lb. 4.30 - 5.10
smaller lots, works lb. 4.85 - 5.30
technical, dms lb. 1.74 - —
Para-aminosalicylic, dms., 1,000-lb lots or more lb. 6.00 - 7.50
smaller lots lb. 6.05 - 7.80
Paramethylphenylcinchonic (see Neocinchophen).
Paranitrobenzoic, dms lb. .77 - —
Paratoluidinmetasulphonic, bbls., works lb. .92 - 1.04
Peanut oil, s.d., dms lb. .12¾- .13¾
Perchloric, 60%, cbys., works lb. .58 - .62
70-72%, cbys., works lb. .61 - .66
Phenylacetic, bots lb. 1.45 - 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works, frt. equald 100 lbs. 6.50 - —
l.c.l., works, frt. alld 100 lbs. 7.00 - 7.50
tanks, works, frt. equald 100 lbs. 4.75 - —
NF, 85%, cbys., c.l. lb. .10½- —
For shipments in cbys., add handling charges.
Picramic, ngs. lb. .65 .70

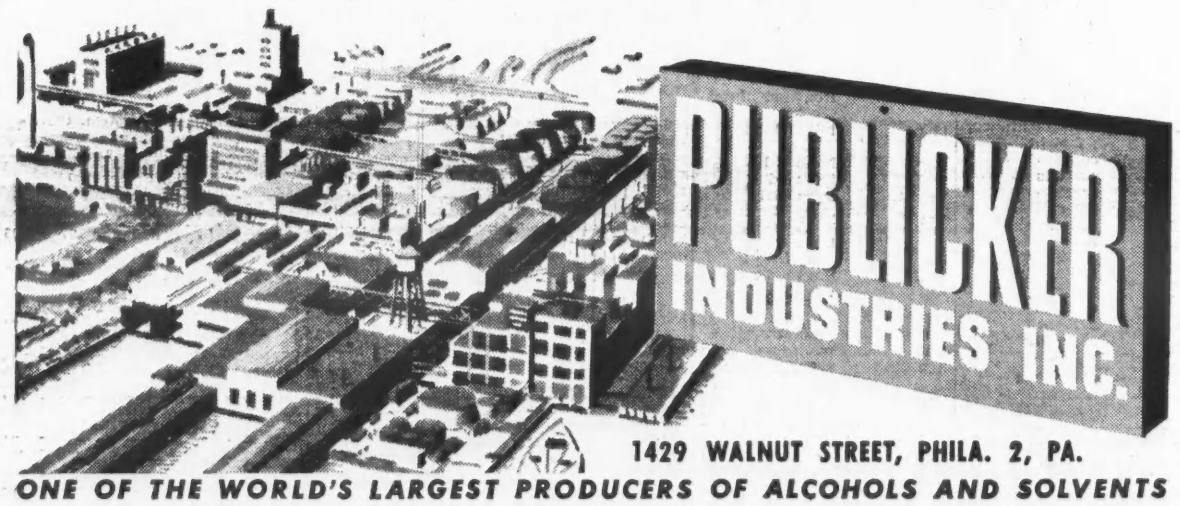
Acid, picric, NF, 300-lb. bbls. lb. .55 - —
smaller lots, dms lb. .81 - .87
tech., bbls. lb. .32 - .33
Propionic, natural, dms., works. lb. .18 - —
tanks, works lb. .17 - —
synth., pure, dms., works lb. .21 - —
tanks, works lb. .19 - —
Pyrogallic, tech., bbls lb. 2.76 - 2.81
NF, cryst., dms lb. 3.25 - 3.30
Pyroligneous, dms, incl., l.c.l., works, South gal. .31 - —
whse. N. Y. C. gal. .43 - —
Ricinoleic (see Acid, castor oil, split).
S, bbls., works lb. 2.97 - 3.25
Salicylic, crude, bgs lb. .33 - .34
sublimed, tech., bbls., c.l. lb. .35 - —
l.c.l. lb. .42 - —
dyestuffs grade, bbls lb. .36 - —
USP, cryst., bbls lb. .44 - —
powder, bbls lb. .49 - —
Sebacic, purified, dms., c.l., works. lb. .62 - —
l.c.l., works lb. .64 - .68
Soybean oil, single, dist., dms lb. .19 - .20¼
double dist., dms lb. .19½- .20¾
Stearic, double pressed, bgs lb. .23 - .24¾
single-pressed, bgs lb. .22½- .23¾
triple-pressed, bgs lb. .25¼- .26½
Succinic, purified, crys., bbls., works lb. .75 - —
tech., bbls., works lb. .65 - .75
Sulphanilic, tech., dms., c.p., frt. alld lb. .18 - —
l.c.l., frt. alld lb. .20 - —
Sulphuric, 60° Be, cbys., c.l., works 100 lbs. 1.75 - —
l.c.l., works 100 lbs. 2.05 - 2.85
tanks, works ton. 16.30 - —

Acid, sulphuric, 66° Be, cbys., c.l., works 100 lbs. 2.10 - —
l.c.l., works 100 lbs. 2.30 - 8.10
tanks, works ton. 20.00 - —
98%, tanks, works ton. 21.00 - —
CP, NF, consumers, cbys., extra, c.l., works, frt. equald. lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. bottles extra cs., c.l., works, frt. equald lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
fuming, 20%, tanks, works ton. 22.40 - —
Tallow, dist., dms lb. .18½- .19¾
Tannic, tech., dms lb. No prices.
fluffy, bbls., 1,000-lb. lots lb. 1.59 - 1.60
smaller lots lb. 1.61 - 1.65
powder, bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb 1.51 - 1.54
Tartaric, USP, dom., 230, 250-lb. dms., 10,000 lbs., 1 ship't. lb. .39½- —
smaller lots lb. .40 - —
100-lb. dms lb. .41 - —
small dms. lb. .43 - .45
Thioglycolic, refined, bbls., cbys., basis 100% lb 1.60 - 1.80
tech. bbls. cbys. basis 100% lb 1.40 - —
Tobias, bbls., frt. alld lb. .74 - —
Toluenesulphonic, dms., c.l., works lb. .18½- —
l.c.l. works lb. .20 - —
tanks, works lb. .17 - —
Trichloroacetic, bots lb 2.00 2.50
Trichlorophenoxyacetic (see under T, 2, 4, 5 T).
Tungstic, tech., kgs., works lb 2.20 2.40
Undecylenic, dms lb. 1.00 1.25
Aconite leaves, bls lb. .40 - .42
Root, bls lb. .48 .52
Aconitine, amorph., mild, bots oz. 27.50 32.50
cryst., potent, bots oz. 78.00 85.00
Acrolein, dms., works lb. .50 —

Acrylonitrile, dms., c.l., works lb. .40½- —
l.c.l., works lb. .41 - .60
tanks, works lb. .39 - —
Adeps lanae (see Lanolin).
Adonis vernalis herb, bls lb. .24 - .28
Agar, USP, Kobe, No. 1 strip, bls lb. 1.25 - 1.30
powdered, 30 mesh, fib. dms lb 1.65 —
Agaric, white, bls lb. 1.60 1.75
Agrimony herb, bls lb. .35 - .40
Alanine, dextro-laevo, dms., works, lb 8.50 - 11.00
Albumen (eggs), edible, flake, bbls. lb. 1.40 - 1.42
powd., bbls lb. 1.44 - 1.46
tech., cryst. bbls lb. .77 - .80
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., l.c.l lb. .67½- .72½
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31¾- —
l.c.l., dlvd lb. .32½- —
tanks, dlvd. lb. .30 - —
Amyl, ex pentane dms., c.l. frt. alld, E. Miss. lb. .21 - —
l.c.l., frt. alld. E. of Miss. lb. .22 - —
tanks, frt. alld. E. of Miss. lb. .19 - —
(see also Fusel oil, ref.)
fermentation, refined, 126-132° C., dms., c.l., dlvd lb. .33¾- —
l.c.l., dlvd lb. .34¾- —
tanks, dlvd lb. .32 —
128-132° C. dms., l.c.l. dlvd lb. .36½- —
ACS grade, dms., l.c.l. dlvd lb. .38½- —
Benzyl, NF, dms lb. .60 - .68
tech. dms. works, frt equald. lb 45 50
Butyl, fermentation, normal, dms., c.l., frt. alld lb. .29¾- .34¼
l.c.l., frt. alld lb. .30¾- .33¼
tanks, frt. alld lb. .28 - .30½
synthetic, normal, dms., c.l., frt. alld lb. .16¼- —
l.c.l., frt. alld lb. .17¼- —
tanks, frt. alld lb. .14½- —
secondary, dms., c.l., frt. alld. lb. .12¾- —
l.c.l., dlvd., frt. alld lb. .13½- —
tanks, dlvd., frt, alld lb. .11 - —
tertiary, dms., c.l., frt. alld. lb. .13¾- —
l.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .12 - —
Capryl, dms., c.l., works lb. .26½- —
l.c.l., works lb. .27½- —
tanks, works lb. .25 - —
Cetyl, dom., CP., fiber ctns., 1,000 lbs lb. 1.50 - —
smaller lots lb. 1.55 - —
Cinnamic, bots. lb 2.75 - 3.20
Denatured, CD12, CD13, CD14, dms., c.l., dlvd. E. of Miss. R gal. .79 - 1.03½
l.c.l., dlvd. E. of Miss. R. gal. .83 - 1.12½
tanks, dlvd. E. of Miss. R. gal. .67 - .91½
Tankcar sales require written authorization by Alcohol Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Miss. R. gal. .69½- 1.03½
l.c.l., same basis gal. .73½- 1.12½
tanks, same basis gal. .57½- .91½
Tankcar sales require written authorization by Alcohol Tax Unit.
SD1, 190 pf., dms., c.l., dlvd. E. of Miss. R. gal. .69½- 1.02½
l.c.l., same basis gal. .73½- 1.11½
tanks, same basis gal. .57½- .90½
SD2B, dms., c.l., E. of Miss. R. gal. .68 - 1.03
l.c.l., same basis gal. .72 - 1.12
tanks, same basis gal. .56 - .91
SD3A, dms., c.l., E. of Miss. R. gal. .68 - 1.00½
l.c.l., same basis gal. .72 - 1.09½
tanks, same basis gal. .56 - .88½
SD23A, dms., c.l., E. of Miss. R. gal. .79½- 1.02½
l.c.l., same basis gal. .83½- 1.11½
tanks, same basis gal. .67½- .90½
SD23H, dms., c.l., E. of Miss. R. gal. .70 - 1.02½
l.c.l., same basis gal. .74 - 1.11½
tanks, same basis gal. .58 - .90½
SD27A, dms, c.l., E. of Miss. R. gal. 1.41½- —
l.c.l., same basis gal. 1.45½- 1.50½
tanks, same basis gal. 1.29½- —
SD30, dms., c.l., E. of Miss. R. gal. .76½- .98
l.c.l., same basis gal. .80½- 1.07
tanks, same basis gal. .64½- .86
SD35A, dms., c.l., E. of Miss. R. gal. .82½- 1.04
l.c.l., same basis gal. .86½- 1.13
tanks, same basis gal. .70½- .92
SD40, dms., c.l., E. of Miss. R. gal. .79 - 1.04
l.c.l., same basis gal. .83 - 1.13
tanks, same basis gal. .67 - .92
Diacetone, acetone free, dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼- —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Miss. R gal. 17.87 -18.12
l.c.l., same basis gal. 17.91 -18.21
tanks, same basis gal. 17.75 -18.00
tax free, dms., c.l., dlvd. E. of Miss. R gal. .77 - 1.02
l.c.l., same basis gal. .81 - 1.11
tanks, same basis gal. .65 - .90
absolute, 200 pf., tax paid, dms., c.l., same basis gal. 18.77 -19.02
l.c.l., same basis gal. 18.81 -19.11
tanks, same basis gal. 18.65 -18.90
Ethylbutyl, dms, c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Ethylhexyl, dms., c.l., dlvd lb. .29¼- —
l.c.l., dlvd lb. .30¼- —
tanks, dlvd lb. .27¾- —
Furfuryl, tech., cns., works lb. .30 - —
dms., c.l., works lb. .21½- —
l.c.l. works lb. 23 - —
tanks, works lb. 18 - —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd lb. .19½- —
l.c.l., works lb. .20½- —
tanks, dlvd lb. .17½- —
Iso-octyl, dms., c.l., works lb. .29¼- —
l.c.l., works lb. .29¾- —
tanks, works lb. .26¼- —
Isopropyl, refd., 91%, dms., incl., c.l., dlvd gal. .54 - —
l.c.l., dlvd gal. .59 - —
tanks, dlvd gal. .42 - —
95%, dms. incl., c.l., dlvd gal. .55½- —
l.c.l., dlvd gal. .60½- —
tanks, dlvd gal. .43½- —
99%, dms. incl., c.l., dlvd gal. .57 - —
l.c.l., dlvd gal. .62 - —
tanks, dlvd gal. .45 - —
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Nonyl (see Trimethylhexanol).
Octyl, perfumer's grade, bots lb 1.70 3.25
technical (see Octanol, normal)
Pantothenyl (see Panthenol)
Phenylethyl, dms lb. 1.60 - 1.95

PUBLICKER PRODUCTS INCLUDE:
ETHYL ALCOHOL
• Pure (USP) • Denatured
• Proprietary Solvent • Anhydrous (200 proof)
ACETONE • BUTYL ALCOHOL
BUTYL ACETATE • ACETIC ACID
ETHYL ACETATE • ACETALDEHYDE
AMYL ACETATE • PACO SOLVENT

WHETHER you're filling a formula that calls for ethyl alcohol as "2 ccm sp. vini sicat ux" or using a tank car a day, Publicker can supply you with products of known purity and absolute uniformity—always. And, while our productive capacity is the world's largest, we consider Quality Control and Customer Service of greater importance in warranting your patronage.



1429 WALNUT STREET, PHILA. 2, PA.
ONE OF THE WORLD'S LARGEST PRODUCERS OF ALCOHOLS AND SOLVENTS

ISOSTYRE*

is now available to manufacturers of

ENAMELS, CLEAR VARNISHES
SHELLAC SUBSTITUTES, FLOOR SEALERS

who want their products to possess Color and Gloss Retention of a quality heretofore unknown in the Paint Industry

We're sorry we couldn't print this advertisement in glowing red — because for us Isostyre marks a red letter day. For, after experimentation, testing and re-testing, we now have Isostyre in commercial production.

We could tell you about gloss and color retention, rapid dry, waterproofness, alcohol and alkali resistance, durability, hard and flexible film — plus the additional amazing properties of our new and exciting advance in chemistry.

But since we couldn't red letter the advertisement — we're being conservative and only listing the characteristics of Isostyre.

The rest is up to your own imagination, and your desire to improve your product.

Read the list carefully — and compare Isostyre to any product you are presently using. Then, if you yourself are interested in using Isostyre — let us know so we can send you further details and samples of Isostyre for your own testing.

We have reason to believe that using Isostyre will enable you to produce coatings of quality never made before in the Paint Industry. After testing Isostyre yourself, we think you'll agree.

* ISOSTYRE (Reg.) is a Styrenated Dehydrated Castor Oil which will provide your products with unique characteristics.

REACTIVITY

Isostyre is non-reactive in the presence of basic pigments such as zinc oxide. Thus zinc oxide may be used in whites without loss of gloss.

STABILITY

Isostyre may be used in all types of enamels without fear of viscosity changes. A point of superiority over other styrenated products.

SPEED OF DRY

A film of Isostyre one mil thick (dry basis) will air dry tack free in 30 minutes, hard dry in 50-60 minutes or bake out at 200° F. in 45 minutes. Isostyre can be recoated after over-night dry without "pick-up".

MINERAL SPIRITS TOLERANCE

Isostyre can be reduced 400% with Mineral Spirits.

DURABILITY

Isostyre has durability approximately equal to that of a medium length alkyd resin.

HARDNESS

Gloss enamels formulated with Isostyre will air dry (in 24 hours) to films of sward hardness of 40.

BRUSHING

Isostyre, like alkyd resins, has somewhat harder brushing properties than many oleoresinous varnishes. This problem can usually be overcome by pigmentation and choice of solvents.

COLOR RETENTION

Isostyre has been proven superior to other styrenated oils currently available and is comparable to that of high quality Soya Alkyd and D. C. O. resins.

USE OF DRIER

Isostyre will dry rapidly in the absence of drier. However, a small amount of Cobalt (0.03%) as naphthenate will effectively improve the dry and correct any tendency to forming a wrinkle film. No other drier should be used.

SOLVENT RESISTANCE

Isostyre will soften in contact with common solvents but recovers completely in a short time.

After extensive testing and with the experience of two years of manufacturing in our Canadian plant — ISOSTYRE is now in commercial production in our recently completed plant at Harrison, New Jersey. It is now available to you in quantity. Please call on us for information and samples — Isostyre will improve your products.

WOBURN CHEMICAL CORP. (N.J.)

WOBURN dependable PRODUCTS

FATTY ACIDS, SPLIT AND DISTILLED

CASTOR • CHINAWOOD • COCOANUT • CONJULIN • COTTONSEED • DISTOLINE
HELIOLINE • ISOLINE • LAURIC • LINSEED • MARINE • PALM • SOYA • TALLOW

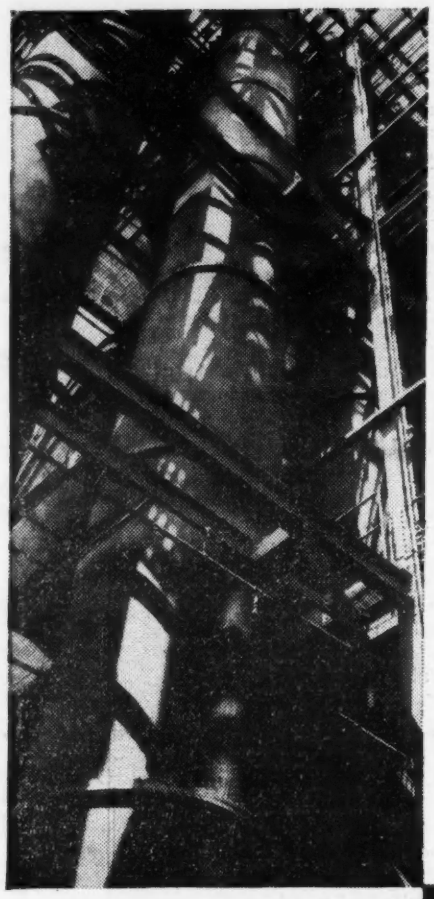
SYNTHETIC DRYING OILS, ESTERS AND PLASTICIZERS • ESTER GUMS AND ROSINS • PIGMENTS AND COLORS

1200 HARRISON AVENUE, KEARNY, NEW JERSEY • KEARNY 2-3300

Alcohol, Polyvinyl—Ammonium Thiocyanate

Alcohol, polyvinyl, type A, fiber pack, Niagara Falls lb .65 - 70
type B fiber pack same basis lb 60 68
Propyl normal dms. c.l. dlvd lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
Salicyl (see Saligenin).
Tetrahydrofurfuryl cns. Waverly, N Y lb 47 —
dms., Niagara Falls, N. Y lb. 40½ —
l.c.l. Waverly, N Y lb. 42½ —
tanks, Niagara Falls, N. Y lb. .38 —
industrial grade, dms. c.l., Niagara Falls N Y lb. .29 —
l.c.l. Waverly, N Y lb. .30½ —
tanks Niagara Falls N Y lb. 26½ —
Aldol, 65%, dms., works lb. .20 - .21
denaturing grade dms gal 1 33 1 48
Aldrin 60% solut. dms., c.l. works frt. alld lb 1.06 - —
l.c.l. works, frt. alld lb 1.20 - —
Aletris root, bgs lb. 1.75 - 1.90
Algin, bbls. fib dms lb. 76 1.20
Alizarin (see Red Alizarin)
Alkanet root, bgs lb 35 40
Allethrin 100% dms., 1 to 10 dm. lots lb. 45.00 - —
smaller lots, works lb 50 00 - 55.00
solution 20% dms., 100 lb. lots, works lb 9.00 - —
10% dms., works gal. 37 75 - —
2% dms., works gal 7 75 - —
Allspice Jamaica (see Pimento)
Mexican, bgs., futures lb. .16 - .16½
Allyl bromide, cbys., works lb. 1.30 - 1.40
Chloride, dms., c.l., dlvd lb. .16¾ —
l.c.l. dlvd lb. .17½ —
tanks dlvd lb. .15 —
Allyl starch, solid, dms., works lb. .51 - —
solution, 40%, dms., works lb. .25½ - —
Aloe, Cape, cs lb. .38 - .39
powdered, cs lb. .48 - .49
Curacao kgs lb. .35 .36
Socotrine kgs lb 35 .36
Aloin USP bbls. dms. kgs lb 3 50 —
Alphanaphthol, bbls., frt. alld lb. .77 - .85
Alphanaphthylamine, bbls. frt. alld. lb .45 - —
Alphanaphthylthiourea 93-98%, fib. dms., works frt. alld lb 2.00 2.40
Alphanitronaphthalene, bbls., frt. alld lb. .37 - .41
Alphapicoline ref. dms. c.l. works, frt. equald lb. .39½ - —
l.c.l., works, frt. equald lb. .40 - —
Alphapinene tanks South works gal. No prices.
Alphaterpineol dms. t.c.l. dlvd f.o.b. lb .17 —
Alphatocopherol, bots kilo. 350.00 —
Acetate, bots kilo. 350.00 —
Althea root NF peeled bls lb 30 40
Alum, ammonium, gran., bbls., works 100 lbs 3.30 —
lump, bbls. works 100 lbs 4.05 —
powd., bbls. works 100 lbs 4.20 —
USP, burnt, bbls lb. .20 .21
hydrous, bbls lb. .07¾ .08
Potassium, gran., bbls., works 100 lbs 4.05 —
lump, bbls., works 100 lbs 4.30 —
powd. bbls. works 100 lbs 4 45 —
USP, burnt, bbls lb. .20 .21
hydrous bbls lb. .07¾ .08
Potash-chrome, dms. lb. .17 - —
Soda, bbls., c.l. works 100 lbs 3.25 —
l.c.l., works 100 lbs. 4.25 - 5.50
Alumina, calcined, bgs., c.l., works lb. .03½ - .05½
crystalline (see Aluminum oxide).
Aluminum acetate, basic solution, 24%, bbls., l.c.l., works lb. .11 - —
20% bbls., l.c.l., works lb. .10 - —
Chloride, anhyd., com'l, dms., c.l., works lb. .16 - —
l.c.l., works lb. .16½ - —
cryst., com'l, dms., c.l., works lb. .1030 - —
l.c.l., works lb. .1070 - —
NF, gran., dms., works lb. .27 - .28
solution, 32°, cbys., c.l., works lb. .0369 - —
l.c.l., works lb. .0435 - .0960
tankcars, works 100 lbs. 2.80 - —
Fluoride (ech. annyd. bbls., c.l., works lb. .10 - —
t.c.l., works lb. .11 - .13
Formate, basic solution cbys., c.l lb. .09½ - —
t.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton. 50.00 -54.00
t.c.l., works ton. 72.00 -86.00
light, bgs., dlvd lb .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .21¼ - —
contract, works lb. .20¼ - —
9-9½% Al_2O_3, fib dms., works lb. .18¼ - —
contract, works lb. .17¼ - —
dried USP XII fib dms. works. lb. 79½ - —
contract, works lb. 76½ - —
powder tech. (see Aluminum hydrate).
Laurate, precip. bbls fb. .38½ - —
Linoleate, solid dms. frt alld lb. .39½
Metal, 99%+ ingots, 10,000 lbs. lb. .19 - —
pigs, 10 000 lbs lb. .18 - —
Naphthenate, liquid, 1.7%, frt. alld lb. .26 - —
Oleate dms precip lb. 35¼ - —

Aluminum oxide, amorphous (see Alumina, Calcined).
crystalline, flour, classified, 8-240 mesh, dms., frt. alld lb. .14 - .15
kgs., ton, frt. alld lb. .12½ - —
smaller lots, frt. alld. lb. .13 .15
280-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt. alld lb. .31 - —
600 mesh, dms., frt alld lb. .35 - .37
kgs., frt alld lb. .34 - —
600 mesh, dms., frt. alld. lb. .51 - .53
kgs. frt. alld lb .50 - —
Aluminum oxide flour prices 1c per lb. higher.
optical, floated, kgs., dlvd lb. .36 - .36
unclassified dms., frt. alld. lb. .16 - .17
kgs. frt. alld lb .15 —
Paste, lining, extra fine, dms. lb. .59½ - —
standard, dms lb. .41 - —
Powder, lining, extra fine, dms lb. .97½ - —
standard, dms lb. .68½ - —
rubber comp., dms lb. .58½ - —
unpolished, standard, dms lb. .54½ - —
varnish standard, dms lb. .59 —
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb for 100-lb dm., 1½c per lb for 50-lb dm. 3c per lb for 10-lb. can, and 5c. to 12c per lb for smaller containers. Deduct 1c. per lb for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.
Resinate, precip., dms., frt. alld. lb. .25¼ - —
Stearate, dibasic, ctns., c.l. lb. .40 - —
l.c.l. lb. .41 - —
monobasic, ctns., c.l. lb. .40 - —
l.c.l. lb. .41 - —
tribasic, ctns., c.l. lb. .40 - —
l.c.l. lb. .41 - —
Sulphate, com'l. bulk, c.l. works, 100 lbs. 1.65 - —
ground, bgs, works ton. 33.00 - —
lump, bgs., works ton. 36.00 - —
iron-free bgs c.l. works frt equald 100 lbs. 3.25 - —
l.c.l., works 100 lbs. 3.65 - 6.15
NF gran dms. works lb 27 28
powd., dms., works lb 32 33
Trihydrate heavy (see Aluminum hydrate)
Ambergris gray bots oz. 8.00 -10.00
Aminoazotoluene, bbls. lb. .94 - 1.03
Aminomethylpropanol cns., dms., works lb. .60 —
Aminoethylethanolamine, dms., c.l., works lb. .42 - —
t.c.l. works lb. 42½ - —
tanks works lb 40 —
Aminophylline, USP, 100-lb dms. lb. 5.60 - 5.85
Aminopyrine USP bots dms lb 6 00 6.15
Ammonia anhydrous fertilizer tanks, works ton 74.00 -75.00
pure, cyls. extra, zone 1 lb 17 17½
2 lb 19 19½
3 lb. 21 21½
4 lb. 16 19½
refrigeration tanks, works ton. 76.50 -77 50
Aqua (29.4% NH_3), dms., c.l., works 100 lbs 3.10 —
t.c.l., works 100 lbs 3.50 —
tanks, works, anhyd. basis ton. 80.00 -81.00
Ammoniac gum (see Gum, ammoniac)
Sal, gray bgs. c.l. works frt equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 -11.15
Ammoniac, sal, white, gran., bgs., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 6.25 - —
Ammoniacal liquor tankcars works, anhyd basis ton 75 00 -80 00
Ammonium acetate, purified dms lb .39 .40
reagent jars lb 61 63
Benzoate USP dms. kgs., 4,000 lbs. frt alld lb .80 —
smaller lots frt alld lb .81 1.08
Biborate, bbls., c.l., works ton. 309.50 - —
ton lots, ex whse ton. 372.50 - —
less ton lots, ex whse ton. 377.50 - —
Bicarbonate, dms., c.l., works lb. .05½ - —
l.c.l., works lb. .06 - —
Bichromate, bbls., works lb. .33 - .38
Bifluoride dms., dlvd lb. .18¾ - .19¾
Bromide, gran., NF, bbls lb. .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c. per lb higher.
Carbonate, USP, lump, powd., dms lb. .20 - .21
Chloride, tech (see Ammoniac, sal).
USP gran., bbls. dms lb .18 .19
Citrate, dibasic, bbls lb. .75 —
dms. lb .80 .85
Fluoride (see Bifluoride).
Hydroxide (see Ammonia aqua)
Hypophosphite NF dms lb 2 40 —
Iodide, NF, jars lb. 4.01 - 4.11
Linoleate, plastic, 80% dms., works lb. .40½ - —
kgs., works lb. .42½ - —
25% dms. frt. alld lb. .21½ - —
tech., bbls., works lb. .37 —
dms., works lb. .39 —
Molybdate, chemical grade, bbls., kgs. lb. .85 - —
metal grade, kgs lb. .90 - —
tech grade bbls. kgs lb .80 - —
Nitrate, fertilizer grade, Canadian eastern, 32.5% N, bgs., c.l., shipping point ton. 63.00 - —
western 33.5% N, bgs., del., f.o.b. cars, Los Angeles ton. 71.55 - —
domestic, bgs., western works. ton. 58.00 -63.00
with dolomite, 20.5% N, bgs., Hopewell, Va ton 46 00 —
Oleate, dms. precip lb 23¼ —
Oxalate fine gran. dms lb. .25 - .31
Pentaborate, gran. bbls., c.l. works ton. 219.50 - —
ton lots, ex whse ton. 282.50 - —
less ton lots, ex whse ton. 287.50 - —
Ammonium pentaborate powder, $10 per ton higher.
Perchlorate, kgs. works lb .50 .75
Persulphate kgs lb .25½ - .28¼
Phosphate, com'l, bgs., c.l., works. lb. .08¼ - —
l.c.l., works lb. .08¾ - —
dibasic NF w bbls., dms lb 40 —
tech., bgs., c.l., works lb. .08 —
l.c.l. works lb 08½ —
Salicylate, NF, dms., kgs lb. 1.34 1.35
Silicofluoride dms. works lb .12 13
Sulphamate, bbls. dms. works lb. .18 20
Sulphate, coke-oven, bulk, producing ovens ton. 32.00 -45.00
converters', Gulf and Atlantic ports ton. 50.50 - —
Sulphide, liquid, 40-45% basis, 100%, dms., c.l., works. lb. .10½ - —
t.c.l. works lb .15½ —
tanks, dlvd or frt alld lb. .09 —
Sulphocyanide, tech (see Ammonium thiocyanate)
Thiocyanate tech., bbls., c.l., works lb. .15 - .18
l.c.l., works lb. .16 - .20



aliphatic

ACIDS AND ANHYDRIDES
Acetic Acid
Acetic Anhydride
n-Butyric Acid
Crotonic Acid

ALCOHOLS
n-Butyl Alcohol
2-Ethylbutyl Alcohol
2-Ethylhexyl Alcohol

ALDEHYDES
Acetaldehyde
n-Butyraldehyde
Crotonaldehyde
Isobutyraldehyde

PLASTICIZERS
Dibutyl Phthalate
Diethyl Phthalate
Di-(2-Ethylbutyl) Phthalate
Di-(2-Ethylhexyl) Phthalate
Di-(Methoxyethyl) Phthalate
Dimethyl Phthalate
Triacetin
Tributyrin

aromatic

AMINES
2, 5-Diethoxy Aniline
2, 5-Dimethoxy Aniline
Phenyl Diethanolamine
Phenyl Ethyl Ethanolamine
m-Tolyl Diethanolamine
o-Tolyl Propanolamine

AMINOPHENOLS
m-Aminophenol
p-Aminophenol
Tenamene 1

PHENOLS
1, 5-Dihydroxy Naphthalene
2, 5-Di-tert-Butyl Hydroquinone
Quinizarin
Tecquinol
Toluhydroquinone

PHENOL ETHERS
Hydroquinone Diethyl Ether
Hydroquinone Dimethyl Ether
Hydroquinone Di-n-Butyl Ether
Hydroquinone Mono Methyl Ether

MISCELLANEOUS
Acetanilide
p-Benzoquinone
2, 5-Di-tert-Butyl Quinone
Tenamene 2
Beta Oxy Naphthoic Acid

SOLVENTS
Acetone
n-Butyl Acetate
Ethyl Acetate
Isopropyl Acetate

MISCELLANEOUS
Isopropenyl Acetate
Triethyl Phosphate

cellulose products
Cellulose Acetate
Cellulose Acetate Butyrate
Oxidized Cellulose

inorganic
Iron Oxide
Tecmangam 65%
Zinc Thiocyanate

EASTMAN INDUSTRIAL **CHEMICALS**

SALES REPRESENTATIVES:

NEW YORK
10 E. 40th St.
CLEVELAND
Terminal Tower Bldg.
CHICAGO
360 N. Michigan Ave.
WEST COAST:
Wilson & Geo. Meyer & Co.
SAN FRANCISCO
333 Montgomery St.
LOS ANGELES
4800 District Blvd.
PORTLAND
520 S. W. Sixth Ave.
SEATTLE
1020 Fourth Ave., So.

Specifications, properties and typical uses of these chemicals are contained in the 1950 Eastman Industrial Chemicals catalog. Write for your copy.

If you require chemicals other than those which are currently offered, we would like to discuss the possibilities of commercial production. Tennessee Eastman processing units are flexible and versatile. Please address inquiries to the attention of the Chemical Sales Division, Kingsport.

TENNESSEE EASTMAN CORPORATION
(Subsidiary of Eastman Kodak Co.)
KINGSPORT, TENNESSEE

Ammonium thioglycollate, com'l, bgs., 100% basis	lb.	1.40	- 1.60
highly purified, cbys., same basis	lb.	1.70	- 1.90
Thiosulphate cryst. jars works	lb.	.32	—
Amphetamine citrate dextro, bots.	lb.	36.00	—
dextro-laevo dms	lb	6 50	—
Hydrochloride, dextro dibasic bots.	lb.	36.00	-40.00
monobasic bots	lb.	34.00	—
dextro-laevo, dms	lb.	6.50	- 7.00
Phosphate dextro dibasic bots	lb.	36.00	-40.00
dextro-laevo, dibasic, dms	lb.	6.50	- 7.00
monobasic, dms	lb.	6.25	—
Sulphate, dextro, dms	lb.	36.00	-40.00
dextro-laevo, dms	lb.	6.50	- 7.00
Amyl acetate ex fusel oil tech. dms., c.l., dlvd	lb.	.29¾	- —
l.c.l., dlvd.	lb.	.30¾	- —
tanks, dlvd.	lb.	.28	- —
ex pentane, dms., c.l., frt. alld. E. of Miss. R	lb.	.21½	- —
l.c.l., same basis	lb.	.22½	- —
tanks, same basis	lb.	.19½	- —
Alcohol (see Alcohol amyl)			
Butyrate dms	lb	90	1 05
Cinnamic, aldehyde, dms	lb.	1.60	2.05
Nitrite USP bots	lb	1 75	1 85
Salicylate, cns., dms	lb.	80	85
Anethol, NF, cns., dms	lb.	1.18	- 1.50
Angelica root dom bls	lb	65	70
imported, bls	lb.	.75	.85
Angostura bark, bls	lb.	.48	50
Aniline oil dms c.l. works, frt. alld	lb.	.18	- .19
l.c.l., works, frt. alld	lb.	.19	- .20
tanks, works, frt. alld	lb.	.17	- .18
Salt, dms., frt alld	lb.	.28	—
Anise, Argentine bgs	lb	No stocks	
Chinese, star, bgs	lb.	.24	- .25
Cyprus bgs	lb	20	.20½
Czech, bgs	lb.	.15	- 15½
Mexican, bgs	lb.	.16½	.17
Spanish, bgs	lb.	.16½	- .17
Turkish, bgs	lb.	.15	- .15½
Anisic aldehyde bots, dms	lb	2.00	2.45
Anisole powder dms	lb	24	25
Seed, bgs	lb	16	19
Anthracene, 80-85% bbls, works	lb	1.10	—
90% bbls, works	lb	1.25	—
Anthraquinone, 99.5% bbls., frt. alld	lb.	.85	- .88
Antimony butter (see Antimony trichloride)			
Metal bulk, c.l., mines	lb.	.32	—
cases, c.l., mines	lb.	.32½	—
Oxide, bbls., c.l., frt. alld	lb.	.34	- .36
l.c.l., frt. alld	lb.	.35	- —
Trichloride, pails, works	lb.	.34	.36
solution, cbys	lb.	.33¼	.34
Sulphide 62-64% bgs frt alld. dlvd	lb.	.24	- .24½
Antimony potassium tartrate (see Tartar emetic)			
Antipyrene, USP, dms	lb.	2.50	- 2.55
Apomorphine USP bots	oz.	23.20	23 70
Archil extract, bbls	lb	No stocks	
Areca nuts, powd., bbls	lb.	.18	- .19
Arecoline hydrobromide NF bots	oz.	5.00	5 75
Arginine hydrochloride laevo, dms.	kilo.	70.00	-99.00
Argols, min. 50% bgs., shipment ports per 100 kilos (100% purity)		25.00	- —
Arnica, flowers, bls	lb.	45	.50
root bls	lb	1.45	—
Arrowroot, powd., bgs	lb.	.14	.16
Arsenic metal lump bbls prompt shipt	lb	80	90
Sulphide yellow bbls	lb	No stocks	
Trioxide, USP, dms	lb.	40	—
White, powd., bbls., c.l., dlvd	lb.	.06½	- —
l.c.l., dlvd	lb.	.07½	- .08½
Asafetida cs	lb	52	55
powd. bbls dms	lb	50	52
Asbestine (see Talc fibrous N Y.)			
Asbestos, Canadian crude No 1. c.l (20 tons) mines	ton	940.00	960 00
No. 2, c.l (20 tons) mines	ton	465 00	492 00
Run-of-mine, c.l (20 tons) mines	ton	400 00	—
fiber, 3K c.l (20 tons) mines	ton	313 00	—
3R, c.l (20 tons) mines	ton	267 00	—
3T, c.l (20 tons) mines	ton	249 50	—
3Z, c.l (20 tons) mines	ton	231 00	—
4K, c.l (20 tons) mines	ton	124 50	—
4M, c.l (20 tons) mines	ton	124 00	—
4T, c.l (20 tons) mines	ton	111 50	141 00
4Z, c.l. (20 tons), mines	ton	111 50	—
5D, c.l (20 tons) mines	ton	88 00	—
5K, c.l (20 tons) mines	ton	88 00	—
5M, c.l (20 tons) mines	ton	84 00	—
5R, c.l (20 tons) mines	ton	78 50	79 00
6D c.l (30 tons) mines	ton	58.00	59 00
7D, c.l. 30 tons) mines	ton	52 00	52 50
7F, c.l (30 tons) mines	ton	49 00	49 50
7H, c.l (30 tons) mines	ton	41 50	42 00
7K, c.l (30 tons) mines	ton	35 00	35 50
7M, c.l (30 tons) mines	ton	30.50	31 00
7R, c.l. (30 tons) mines	ton	29 50	30.00
7T, c.l. (30 tons), mines	ton	28.00	28 50
7RF, c.l (30 tons) mines	ton	30 50	31 00
7TF, c.l. (30 tons) mines	ton	30.50	-31.00
8S, c.l (30 tons) mines	ton	19 60	27 00
Prices quoted above are in U S funds. Add $4 per ton for l.c.l lots			
Asphaltum cut-back tanks tank wagon refinery	gal	09	—
Emulsion tanks tank wagon refinery	gal	09½	.10
Gilsonite, brilliant black selects, 270°-295° F fusing point, c.l., bgs., f.o.b. Colo mines,	ton	37.00	- —
seconds, 300°-390° F. fusing point not uniform, c.l., bgs., Colo. mines	ton	34 00	- —
jet, c.l., bgs Colo mines	ton	34 00	- —
Manjak, No. 10, crude, dms., works	lb.	.06½	- —
Steam-rfd., less than 80 penetration, tanks tankwagon refinery	ton	22.00	- —
80-300 penetration tanks tank wagon, refinery	ton	21.00	- —
Atropine, USP, bots	oz.	9.75	-10.00
Sulphate, USP, bots	oz.	5.75	6.35

B

Bacitracin, wholesalers, unlabeled, topical, 2,000 units	vial	42	- —
10,000 units	vial	80	- —
50,000 units	vial	2.88	- —
Balm of Gilead buds, dried, bgs	lb.	1.35	1.45
Barbasco root (see Cube root)			
Barberry, root bark, bgs	lb.	.40	- .45
tree bark, bgs	lb.	40	.45
Barbital, USP, 100-lb. dms	lb.	5.00	- —
Sodium, USP, dms	lb.	5.25	- —
Barium carbonate precip., bgs., 10 tons and up, works	ton	82.50	-87.50
smaller lots, works	ton	92.50	-97.50
Chlorate, kgs., works	lb.	.30	- .35
Chloride, NF, cryst., dms	lb	.17	.18
tech., crystals bgs, c.l., works 100 lbs.		7.80	- —
l.c.l., works	100 lbs.	8.30	-10.30
Chromate bgs (see equals)	lb	11½	.12
Dioxide, dms., works	lb.	.12	- —
Hydrate crystals bgs	lb	09	09½
Hydroxide, anhyd., bbls., works	lb.	.19	- —
Iodide, bots	lb.	6.14	- —
Monoxide (see Oxide)			
Nitrate, bbls., c.l., works	lb.	.11½	- —
l.c.l. works	lb	13	- —
Oxide, grd., dms., c.l., works	lb.	.11	- —
c.l., works	lb	.11½	—

Barium peroxide (see Dioxide). Stearate, ctns., c.l	lb.	.44	- .45
smaller lots	lb.	.45	- .46
Sulphate tech (see Barytes and Blanc fixe) X-ray, bbls.	lb.	.13	- .13½
Sulphide dms, c.l., works	ton	55.00	- —
l.c.l., works	ton	70.00	- —
Barium potassium chromate, dms. c.l. frt alld	lb	20	- —
l.c.l. works	lb	21	- —
tech. bgs. c.l. works, frt equald	ton	90 00	- —
l.c.l. works	ton	100 00	- —
Baryte ore approx 94% $BaSO_4$, bulk mines	ton	9 40	12 50
Barytes water-grd paper bgs, c.l. St. Louis	ton	37.60	-37 85
ex whse. N Y	ton	53.45	-61 75
Southern off-color bgs. mines	ton	19 00	—
95 75% bgs. mines	ton	20 00	—
Bauxite bulk mines	ton	8 50	10 00
Bay leaves (see Laurel leaves)			
Belladonna leaf, bls	lb	50	55
Root, bls	lb.	.50	- .55
Bentonite 200 mesh bgs. works	ton	12 00	-
Benzaldehyde, NF, dms	lb.	.73	- .78
tech., cbys., dms	lb.	.50	- .55
Benzal chloride cbys., works	lb.	.22	.23½
Benzene (see Benzol)			
Hexachloride 99% gamma isomer (see Lindane) tech., bgs. dms. c.l., works, gamma unit	lb.	.02	- —
l.c.l., works, unit	lb.	.0210	- —
gamma, 50% dust, dry, distributors, dms., c.l., dlvd., gamma unit	lb.	.02¾	- —
l.c.l., dlvd., gamma unit	lb.	.0295	- —
wet, distributors, dms., c.l., dlvd., gamma unit	lb.	.03¼	- —
l.c.l., dlvd., gamma unit	lb.	.0335	- —

Benzidine base bbls	lb	1 03	—
Hydrochloride, bbls., frt. alld	lb.	.94	- —
Benzocaine, dms	lb.	3.50	- 3.62
Benzol, pure, nitration, tanks, works, Bethlehem, Pa	gal.	.37	- —
Birmingham district	gal.	.30	- —
Chicago district	gal.	.30	- .35
Cleveland district	gal.	.30	- .35
Geneva, Utah	gal.	.30	- —
Johnstown, Pa	gal.	.35	- —
Lackawanna, N. Y	gal.	.37	- —
Lone Star, Texas	gal.	.37	- —
Lorain, Ohio	gal.	.30	- —
Minaqua, Colo	gal.	.35	- —
Philadelphia, Pa	gal.	.37	- —
Pittsburgh district	gal.	.30	- .35
Sparrows Point, Md	gal.	.37	- —
Syracuse, N. Y	gal.	.37	- —
Terre Haute, Ind	gal.	.35	- —
Wyandotte, Mich	gal.	.37	- —
Youngstown, Ohio	gal.	.35	- —
Benzophenone dms	lb.	1.30	1.60
Benzotrichloride cbys. frt. equald.	lb.	18	20
Benzoyl chloride cbys dms c.l. works, frt. equald	lb.	.20½	- .23½
l.c.l., same basis	lb.	.21½	- .24½
Peroxide pure 6lb ctns. works.	lb.	90	1.05
Benzyl acetate, f.f.c., cns., dms	lb.	.65	- 1.05
Alcohol (see Alcohol benzyl)			
Benzoate USP f.f.c. cns. dms	lb.	80	—
Chloride tech cbys., c.l. works, frt equald	lb	19	19½
l.c.l. same basis	lb	20	20½
High grade 95c higher.			
Cinnamate, cns.	lb.	3.00	4.00
Formate, cns.	lb.	1.60	- 2.10
Propionate bots	lb	1.35	1.65
Salicylate, bots	lb.	1.65	1.85

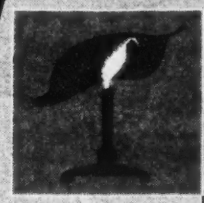
Benzylidinacetone, bots	lb	1.80	2.45
Benzylisoeugenol, bots	lb	8.90	9.50
Berberine, bisulphate, cns	lb.	35.00	-36.25
Hydrochloride, bots	lb.	35.00	-36.25
Sulphate cns	lb	35 00	-36 25
Berberis root bls	lb	35	40
Betagammapicoline, 5°, dms., c.l., works	lb.	.29½	- —
l.c.l., works	lb.	.30	- —
Betamethylnaphthalene, 32°C. m.p., dms. works	lb	90	—
Betanaphthol resublimed, dms. works	lb.	77	- —
tech., bbls., c.l., works	lb.	.32	- —
l.c.l., works	lb.	.34	- —
Benzoate fib dms., works	lb	1.70	—
Salicylate dms	lb	5 00	—
Betanaphthylamine tech., bbls. works	lb.	90	—
Betaphenylethylamine, dms. works, 1,000-lb lots	lb	1.25	—
smaller lots	lb	1.60	—
Betapicolin, 98% dms., works	lb.	95	—
Beth root, bls	lb	45	.50
Biotin, cryst	gram	10.00	—
Bismuth chloride, jars	lb.	5.11	- —
Hydroxide, dms	lb.	4.65	- —
Metal, bxs., ton lots	lb.	2.25	- —
Nitrate, cryst., dms	lb.	2.17	- —
Oxide, anhydrous, dms	lb.	4.47	4.85
Oxychloride, dms	lb.	4.32	4.37
Phenolsulphonate, fib, dms	lb.	5.22	- —
Subcarbonate, USP, dms	lb.	3.20	- —
Subgallate, NF, fib, dms	lb.	3.15	- —
Subiodide, fib, dms	lb.	5.37	- —
Subnitrate, NF, dms	lb.	2.65	- —
Subsalicylate, USP dms	lb.	3.30	- —
Bismuth-ammonium citrate, USP powd., jars	lb.	4.22	- —

Victor ammonium phosphates are used extensively by industry. Why not investigate the important properties of these chemicals which offer a wide variety of applications? You may effect a saving in your process or provide new advantages for your product.

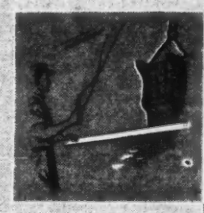
Look over some of the regular uses listed below, and see which application or properties are interesting to you. We shall be glad to send you more information and samples at your request.

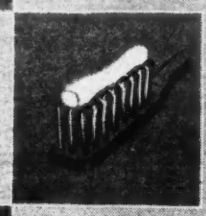
AMMONIUM PHOSPHATES
a group of
VERSATILE VICTOR CHEMICALS

USES OF VICTOR AMMONIUM PHOSPHATES

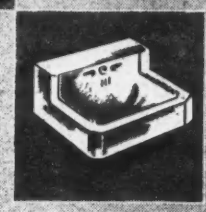

Flameproofing paper, wood, textiles, and vegetable fibers.

Chrome dyeing of wool.


Acid cleaners and rust-proofing metals.


Ammoniated dentifrices.

Manufacture of yeast, vinegar, yeast foods, bread improvers, alcohol.


Ingredient of glass and vitreous enamel.

Preventing afterglow in matches.
Plant nutrient solutions.
Catalyst for urea formaldehyde and melamine resins.

VICTOR MONOAMMONIUM PHOSPHATE
$NH_4H_2PO_4$
A brilliant white crystalline or powdered material.
All grades meet U. S. Pure Food Law requirements.
Grades: Crystalline, powdered, and powdered F. F. (free-flowing)
Typical Analysis:

NH_3 (min.)	14.5%
P_2O_5	61.0%
pH (1% solution)	4.5

VICTOR DIAMMONIUM PHOSPHATE
$(NH_4)_2HPO_4$
A brilliant white crystalline material, mildly alkaline in reaction.
Meets all U. S. Pure Food Law requirements.
Grades: Crystalline, powdered F. F., and dentifrice.
Typical Analysis:

NH_3	25.3%
P_2O_5	53.5%
pH (1% solution)	8.0

Write for Quotations, Technical Data, or Experimental Samples.

VICTOR CHEMICAL WORKS

VICTOR CHEMICAL WORKS
141 WEST JACKSON BOULEVARD • CHICAGO 4, ILLINOIS

A. R. Maas Chemical Co., Division
4570 Ardine Street, South Gate, California

Black, Acetylene—Cadmium Stearate

Black, acetylene, bgs., c.l., works lb. .15 - —
cs., l.c.l., ship't point lb. .19 - .21
Bone, bgs., bbls. l.c.l. dlvd lb. 14¾ 22¾
Carload price ½c per lb less. Deliveries to the Pacific Coast ex dock or whse. 1½c. per lb higher
Carbon, channel beads, bulk, c.l., works lb. .07 —
bgs., c.l., works lb. .0740- —
l.c.l., dlvd. or whse lb. .1225- —
uncompressed, regular, bgs., c.l., works lb. .0950- —
bgs., ctns., l.c.l., dlvd or whse lb. .1550- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l. whse lb. .10 - —
high modulus, bgs., c.l., works, lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing, bgs., c.l., works lb. .04 - —
ctns., l.c.l., whse lb. .08 - —
very fine, bgs., c.l., works lb. .08 - —
l.c.l., dlvd., or whse lb. .1250- —
Charcoal (see C).
Graphite (see G)
Iron oxide synthetic, bgs., c.l., works lb. .11 - —
l.c.l., works lb. .11¼- —
Lamp, bgs., c.l., works lb. .077 - .33
Mineral, bgs., works lb. .0160- .0675
Black ash (see Barium sulphide)
Blackberry bark of root, bls lb. .30 .32
root, bls lb. .12 - .15
Black dyes (see Dyes).
Black haw, root bark, bls lb 65 75
Tree bark, bls lb. .35 - .40
Black indian hemp root, bls lb. .50 .58

Blanc fixe, dry, by-product, bgs., c.l., works ton.85.00 - —
l.c.l., works ton.95.00 - —
direct process, bgs., c.l., works ton.90.00 - —
l.c.l., works ton.120.00 —
N. Y. whse ton.120.00 -140.00
bbls., c.l., works ton.95.00 —
l.c.l., works ton.120.00 -140.00
N. Y. whse ton.120.00 -140.00
pulp, 66⅔% bbls. c.l., works, ton.69.00 - —
l.c.l., same basis ton.75.00 - —
Bleaching powder, dms., c.l., works, 100 lbs. 5.00 - —
l.c.l., works 100 lbs. 6.00 - —
Blood, dried, 16-16½% ammo., bgs. unit-ton. 9.00 - —
high-grade, unground, 16-17% ammon., bulk, Chicago unit-ton. 9.00 - —
soluble, bgs., cs lb. .17 - .19
l.c.l. lb. .18 - .25
Bloodroot, bls. lb. .60 - .65
Blue, alkali, dry, bbls., dlvd. N of Tenn and N.C., E of Miss R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 1.90 - —
Toner, bbls. litho flushed, same basis lb 1.05 —
Celestial, bbls. same basis lb .15 .16
Chinese, bbls., same basis lb. .42 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
limitation (see Blue, ultramarine)
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.75 - 3.85
80%, bbls., same basis lb 3.00 3.40

Blue, iron (see Blue, Chinese, Milori, Potash, Prussian, and Soda).
Methyl violet toner, bbls., same basis lb. 4.20 - —
Milori, bbls., same basis lb. .42 - —
Peacock, fugitive 100% color strength, same basis lb. .60 - .79
Permanent toner, green shade, molybdic, bbls., same basis lb. 3.75 - —
tungstic lb 4.00 - —
Potash, CP, bbls. same basis lb .51 - —
Prussian, bbls., same basis lb. .42 - —
soluble, bbls., same basis lb. .42 - —
Soda, C.P., bronze, bbls., same basis lb. .42 - —
Ultramarine, cobalt type, dry or pulp, bbls. same basis lb. .25 - .26½
jobbing type, dry bbls., same basis lb. .14 - —
regular types, dry or pulp bbls., same basis lb. .20 - .30½
Victoria toner, molybdic bbls lb 3.75 - —
Tungstic, bbls lb 3.75 —
Violet toner, molybdic, bbls., same basis lb 1.24 —
Tungstic, kgs. same basis lb 2.60 2.70
Blue dry colors, dlvd. prices ½c higher Ala., Fla., Ga., La (Shreveport, 1¼c.), Miss. N. C., S. C., Tenn. Tex (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago
Blue dyes are listed under Dyes.
Blueflag, root, bls lb. .50 - .55
Bluestone (see Copper sulphate)
Blue vitriol (see Copper sulphate).
Boldo leaves, bls lb. .08 - .10

Bone, raw, bulk, Chicago ton.75.00 - —
junk, bulk, same basis ton.50.00 -52.00
Meal, raw, 4½% ammon., 50% phos., bgs., E. works ton.62.50 - —
Chicago, works ton.62.50 - —
steamed, feeding grade, 1% ammon., 60% phos., E. works ton.60.00 - —
Chicago, works ton.60.00 - —
fertilizer grade, 3% ammon., 50% phos., bgs., E. works, ton.62.50 - —
Chicago, works ton.62.50 - —
Phosphate, defluorinated (see D).
precipitated (see Calcium phosphate, tribasic precip)
Boneset leaves and tops, bls lb. .18 - .20
Borage flowers, bls lb. 40 45
Borax, tech., anhydrous, bgs., c.l., works ton.74.50 - —
ton lots, ex whse., N. Y. or Chi ton.120.25 - —
less ton lots, same basis, ton.125.25 - —
bulk, c.l., works ton.67.50 - —
crystals, 99½%, bgs., c.l., works, ton.63.75 - —
ton lots, ex whse., N. Y. or Chi ton.109.50 - —
less ton lots, same basis, ton.114.50 - —
bbls., c.l., works ton.88.25 - —
ton lots, ex whse., N. Y. or Chi ton.134.00 - —
less ton lots, same basis, ton.139.00 - —
bulk, c.l., works ton.59.25 - —
granular, 99½%, bgs., c.l., works ton.37.75 - —
ton lots, ex whse., N. Y. or Chi ton.83.50 - —
less ton lots, same basis, ton.88.50 - —
bbls., c.l., works ton.62.25 - —
ton lots, ex whse., N. Y. or Chi ton.108.00 - —
less ton lots, same basis, ton.113.00 - —
bulk, c.l., works ton.33.25 - —
powder, bgs., c.l., works ton.42.75 - —
ton lots, ex whse., N. Y. or Chi ton.88.50 - —
less ton lots, same basis, ton.93.50 - —
bbls., c.l., works ton.67.25 - —
ton lots, ex whse., N. Y. or Chi ton.113.50 - —
less ton lots, same basis, ton.118.00 - —
bulk, c.l., works ton.38.25 - —
Borax packed in kgs. is $45.50 per ton higher than borax packed in paper bgs. USP borax $15 per ton higher than tech.
Bordeaux mixture, bgs. c.l. works, frt. alld. or nearest whse. point lb. .15 .21
l.c.l., same basis lb. .16 .23
Borneol, cns. lb. 2.25 2.50
Bornyl thiocyanoacetate (see Isobornyl thiocyanoacetate)
Brazilwood extract (see Hypernic).
Brimstone (see Sulphur).
Bromine, purified, cs., c.l., frt. alld. E. of Rockies lb. .25 - —
1,000 lbs., same basis lb. .27 - —
dms., lead-lined, dlvd lb. .25 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 2.60
cbys. lb. 1.52 —
Bromstyrol, bots lb. 5.35 5.75
Bronze powder, aluminum (see A)
Gold, litho, cns. dms., works, lb. .50 .60
moulding, cns. dms. works, lb. .80 1.00
printing ink, cns., dms., works lb 95 1.10
radiator, cns., dms., works, lb. .60 - .65
Broomtop, bls. lb. .30 - .35
Brown iron oxide, synth. bgs., l.c.l., works lb. .12 - .13
Oxide, metallic, bgs., works lb. .3075- —
Sap, crystals, works lb. .12 - —
powdered lb. .13 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb. .04½- .15¼
raw, paper bgs., c.l., works lb. .04½- .13
l.c.l., works lb. .04¾- .13¼
Umber, burnt, American, c.l., bbls., works lb. .05¼- .06¼
l.c.l., bgs., works lb. .05½- .07¼
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N.Y lb. .06¼- .08¼
l.c.l., works lb. .06½- .08¼
raw, American bgs., same basis, lb. .04¼- .06¼
Turkey type bgs., same basis, lb. .06½- .06¾
Vandyke, bbls works lb .11 —
Brucine, cns., 100 ozs oz. .35 —
Sulphate, NF, cns., 100 ozs. oz. .27 - .30
Bryonia, root, bls lb .29 .35
Buchu leaves, bls lb. .40 - .42
Buckthorn bark, bls lb. .16 - .18
cut and sifted bls lb. .22 - .24
Berries, bgs lb .80 90
Burdock, root, bls lb. .22 .26
Butadiene, cyls., refinery lb. .21 —
tanks, same basis lb. .11½- —
Butane, indust., tanks, group 3 gal. .04½- —
Butternut bark, bls lb. .25 30
Butyl acetate, fermentation normal, dms., c.l., same basis lb. .29¾- .34¼
l.c.l., same basis lb. .30¾- .33¼
tanks, same basis lb. .28 - .30½
synthetic, normal, dms., c.l., same basis lb. .16¼- —
l.c.l., same basis lb. .17¼- —
tanks, same basis lb. .14½- —
secondary, dms., c.l., same basis lb. .12¾- —
l.c.l., same basis lb. .13½- —
tanks, same basis lb. .11½- —
Alcohol (see Alcohol, butyl)
Aldehyde, dms., c.l., works lb. .19¾- —
l.c.l., works lb. .20¾- —
tanks, works lb. .18 - —
Chloride, dms., c.l., works lb. .41½ —
l.c.l., works lb. .42 - —
Ether (see Ether, butyl).
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .51½- —
l.c.l., same basis lb. .52½- —
tanks, same basis lb. .48 - —
Laurate, cms works lb 42 —
Methacrylate, normal, dms., less than truckload, works lb. .60 - —
Oleate, refd, dms, l.c.l, works lb 52 —
Phenylacetate, dms. lb. 2.00 - 2.25
Phthalate (see Dibutyl phthalate)
Stearate, dms, c.l, frt alld E of Rockies lb. .32½- —
l.c.l., same basis lb. .33½- —
Butylamine, dms., c.l., frt. alld lb. .51½- —
l.c.l. same basis lb. .52½- —
tanks, same basis lb. .49¾- —
Butyric ether (see Ethyl butyrate).

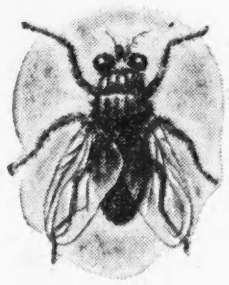
C

Cacao butter (see Cocoa butter).
Cadmium iodide, jars lb 5.00 5.22
Metal, ingots or sticks, cs., dlvd. lb. 2.55 - —
Stearate, 50-lb. ctns., l.c.l., f.o.b. N.Y., frt. equald lb. 1.25 - —

Who should investigate

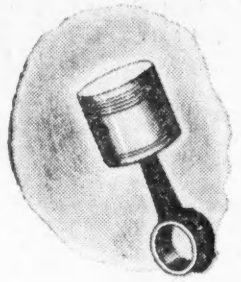
WYANDOTTE

Chlorinated Solvents?



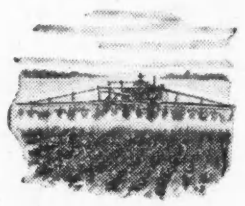
MANUFACTURERS OF INSECTICIDES

Betachlor should be an ideal DDT solvent. It is practically colorless, has a satisfactory flash point and evaporation rate, and dissolves 37% DDT at 25°C.



MANUFACTURERS OF CARBON-REMOVING COMPOUNDS

Solvent C100 in concentrations up to 65% is particularly satisfactory for use in cleaners for carburetors and similar products.

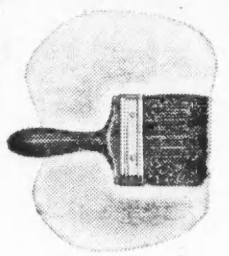


MANUFACTURERS OF FUMIGANTS

Sod webworms, plum curculios, cabbage maggots, Japanese beetle larvae, white grubs, pear thrips and peach-tree borers are all controlled by these products.

BIOGRAPHY

Wyandotte Chlorinated Solvents are currently available in commercial quantities at extremely attractive prices. These low prices are possible because these chlorinated hydrocarbons are by-products of our glycol unit. They are chiefly dichlorinated aliphatics, with a small percentage of products of other degrees of chlorination, both aliphatic and aromatic.



AND ANYONE INTERESTED IN

attractively priced solvents for paints and plastics, paint and varnish removers, detergent additives, selective extractants, degreasing and degumming solvents.

COMPOSITION

PHYSICAL FORM	SOLVENT C100	SOLVENT C160	BETACHLOR	SOLVENT R
	CLEAR, PALE YELLOW LIQUIDS			DARK BROWN LIQUID
DISTILLATION RANGE (Engler)	90°-115°C	115°-170°C	170°-180°C	180°-200°C
FLASH POINT (COC)	70°F	95°F	180°F	190°F
SPECIFIC GRAVITY 20°C/20°C	1.16	1.12	1.16	1.16
ACIDITY, % as HCl, maximum	0.01	0.01	0.01	0.01
WATER, wt. %, maximum	0.05	0.05	0.05	0.05

Our skilled technical staff is ready to help you in your investigation of the properties and applications of Wyandotte Chlorinated Solvents. For samples and further information, write the Development Department.

WYANDOTTE CHEMICALS CORPORATION • Wyandotte, Michigan • Offices in Principal Cities

Wyandotte REG. U. S. PAT. OFF.

Caffeine, natural, USP, cryst., anhyd., dms., 100 lbs. or more..lb. 5.50 - —
synthetic, USP, cryst., dms., 100 lbs. or more lb. 3.80 - —
anhydrous, dms. 100 lbs. or more lb. 4.00 - —
Citrated, USP, dms., 100 lbs. or more lb. 2.60 - —
Hydrobromide, bots.....lb. 6.70 Nom.
Calabar beans, bgs., futures.....lb. .48 - .50
Calamine, USP, dms.....lb. .27 - .29
Calamus root, dom., bgs.....lb. .28 - .30
imported, bleached, bls.....lb. .70 Nom.
peeled, bls.....lb. .30 - .31
Calciferol, cryst., vials, 250 grams or more, works gram 1.90 - —
25 to 249 grams, works gram 2.10 - —
1 to 24 grams, works gram 2.30 - —
in edible oil, dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit. .04¾- —
1,000 to 10,000 standard units, works unit. .05¼- —
less than 1,000 standard units, works unit. .05¾- —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 - 4.00
Arsenate, dealers dms. c.l., whse., works, frt. alld. on 96 lbs. or over lb. .11 - —
l.c.l. same basis lb. .12 - 13
Bromide, NF, jars.....lb. .90 - 1.10
Carbide, standard generator size, dms., c.l. dlvd ton 121.00 —
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 - .30
flake, 77-80% paper bgs., c.l. works, frt. equald ton 25.00 - —
l.c.l. same basis ton 52.00 -82.00
liquor, same basis 40%, tank cars ton 10.50 - —
pellets, bgs., c.l., works ton 31.25 - —
solid, 73-75% dms., c.l., frt. equald ton 23.50 - —
l.c.l., works, same basis ton 32.00 -69.00
USP, gran., bbls lb. .30 —
Chromate, bgs., frt. equald lb. 29½ .30
Cyanide, dms., dlvd E. of Rockies lb. .30 - .50
Gluconate, USA, bbls., dms lb. .65 - .72
USP, bbls, dms lb. .58 .65
Glycerophosphate, NF, fab., dms lb. 2.00 - 2.15
Hydride, dms., works lb .90 —
Hypochlorite, 100-lb. dms., dlvd. E. of Rockies dm. 25.25 -29.85
cns., cased (45 lbs.) same basis, cs. 21.00 -23.00
Hypophosphite, ton lots or less, dms. lb. .90 - .93
Iodide, jars.....lb. 4.32 - —
Lactate, USP, dms., 10,000 lbs. or more, works lb. .37 - —
smaller quantities works lb .38 .44
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt. equald lb. .25¼- —
Nitrate, tech., bbls., works lb. .10 .12
Pantothenate, dextro, bars, 100 grams or more, frt. adjusted gram .07½- —
Phenolsulphonate, dms lb. .64 .65
Phosphate, dibasic, USP, bgs., c.l. 100 lbs. 7.00 - —
l.c.l. .....100 lbs. 7.25 - 7.50
feed grade, bgs. 15 tons, wks. ton 105.00 —
one ton or over, works ton 115.00 —
less than one ton, works ton 125.00 —
monobasic, bgs 10,000 lbs., works, frt. equald lb. .0605- —
smaller lots, same basis lb. .0655- —
tribasic, bgs., c.l., works, 100 lbs. 6.75 —
l.c.l., works.....lb. 7.20 - 7.50
Phytate, bgs., works lb 28 —
Resinate, precip., dms., frt. alld., works lb. .25¼- —
Silicate, hydrated, bgs., c.l., works lb. .06 - —
l.c.l., works.....lb. .06½- —
Stearate, precip., ctns., c.l., works lb. .40 - —
l.c.l., works.....lb. .44 - —
Sulphate (see Gypsum)
Calcium-strontium, phosphorescent, 50 lb., 100 lb. containers, 100 lb. to 999 lb. lots, works lb. 3.40 - 3.50
Calcium-strontium sulphide, fine particle size, works...lb. 3.65 - 3.75
phosphorescent, works.....lb. 2.85 - 2.90
Calendula flowers, bls.....lb .55 - .80
Calomel, USP, powd., dms.....lb. 2.47 - —
Camphene, dms. incl., c.l., works 100 lbs. 14.60 -15.60
l.c.l., same basis.....100 lbs. 14.90 -17.25
tanks, same basis 100 lbs. 12.50 -13.50
Chlorinated, 67-69% (see Toxaphene).
Camphor monobromated NF, dms., kgs. lb. 3.00 - 3.10
natural, powd. 100 lb. lots lb 45 .55
tablets 1 oz ½ oz ns lb 85 .93
Synthetic, tech., bbls., 10 bbls. (1,500 lbs.) lb. .50½- —
smaller lots.....lb. .51 - .61
USP, gran., powd., bbls., 2,000-lb. lots lb. .55 - —
1,000-lb. lots.....lb. .56 - —
smaller lots.....lb. .57 - —
tablets, tins, 2,000-lb. lots lb. .88 - —
1,000-lb. lots.....lb. .89 - —
smaller lots.....lb. .90 - —
Canada balsam (see Fir balsam)
Canella alba bark, bls lb .25 .30
Cantharides, Chinese, cs.....lb. .65 - .70
powd., bxs.....lb. .80 - .85
Russian, bgs lb 3.85 4.00
powd, bxs lb 4.00 4.10
Capsicum (see Pepper, red)
Oleoresin, NF, from domestic pepper lb 4.00 6.50
from African pepper lb 5.75 6.75
Caramel coloring, NF, bbls gal 1.05 1.20
Caraway seed, Dutch.....lb. .19½- .20
Carbazole, 97% steel dms., ton lots, works lb 1.55 —
bbls., same basis lb 1.65 1.85
Carbinol, butyl, secondary, dms., l.c.l., works lb .70 —
Methylisobutyl, dms., c.l., frt. alld., E lb. .15½- —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13½- —
Carbon bisulphide, 50-gal. dms., c.l. works, frt. alld. to competitive points lb. .06½- —
l.c.l., same basis.....lb. .07½- —
5-gal. dms., c.l. same basis lb. .08¾- —
l.c.l., same basis.....lb. .09¾- —
tankcars, same basis.....lb. .0480- —
Dioxide, cyls.....lb. .03 - .08
Tetrachloride, c.p., dms., works, lb. .10 - .11
NF, cbys lb. .17 - .19
tech., dms., c.l., E. of Rockies, frt. alld lb. .08 - —
W. of Rockies, f.o.b. stock points lb. .09 - —
l.c.l., E. of Rockies, frt. alld. lb. .09½- —
W. of Rockies, frt. alld. lb. .102 - —
tanks, E. of Rockies, frt. alld. lb. .07¼- .08¼
W. of Rockies, frt. alld lb. .08¼- —
Carboxymethylcellulose-Sodium See CMC
Carbromal, NF, dms. 100-lb. lots works lb 4.00 4.25
smaller lots, works.....lb 4.10 4.75

Cardamom fruit, bleached, bold, fancy, cs..lb. 3.75 - 3.80
medium, cs.....lb. 3.40 - 3.45
decorticated, Alleppey, cs...lb. 4.00 Nom.
Ceylon, cs.....lb. 3.40 Nom.
Guatemala, cs.....lb. 3.95 - 4.00
Indian, cs.....lb. 3.65 - 3.70
Mangalore, cs.....lb. 3.65 - 3.70
green, Alleppey, bgs.....lb. 3.30 - 3.40
Ceylon, bgs.....lb. 3.00 - 3.05
seed (See Cardamom fruit, decorticated)
Carmine, No. 40, NF, bulk, 100 lbs. or more, dlvd lb 5.50 - —
smaller lots, dlvd.....lb. 5.65 - 6.15
Carotene, crystals, research grade, ampuls, pure alpha or beta, 10 mg. 5.00 - —
90% beta-10% alpha, ampuls, 100 mg. 2.00 - —
gram quantities gm. 5.00 - —
technical, 1,350,000 A units per gram..gm. .67½- —
tins, works.....gm. .44 - —
dry powder, 3,330 A units per gram..lb. .81 - —
emulsion (in milk), 600,000 A units per 16-oz. can. 1.09 - —
in vegetable oil, 166,666 A units, per gram..lb. 25.24 - —
50,000 A units per gram..lb. 7.86 - —
Feed grade, 5,000,000 to 8,000,000 A units, per lb., dms., works, million units..lb. .18 - —
3,330 A units per gram...lb. .85 - —
microcrystalline in oil, 400,000 A units per gram, tins, works, milli. units. .24 - —
Carvol, bots. lb 8.75 9.00
Cascara sagrada bark, bulk.....lb. .38 - .40
Case-hardening mixture, 30% gran., dms., l.c.l., works lb. .10½- —

Casein, dom., acid-precip, standard, bgs., 10,000 lbs. or more, ship't point lb. .39½- .40½
premium, bgs., 10,000 lbs. or more, ship't point lb. .41½- .43½
imp. acid-precip., ground 100 bgs. or more, ex dock lb. .39 - .39½
rennet-precip., bgs. 10,000 lbs. or more, ex dock lb. .36 - .37
Cashewnut shell liquid, treated, dms., c.l., f.o.b. Newark, N.J. lb. .21 - —
ton lots same basis lb. .22½- —
dm. l.c.l. same basis lb 24½ —
Cassia, Batavia, cuttings, bls...lb. .14 - .14½
longstick.....lb. .22 - .22½
afloat, bls.....lb. .17 - .18
shortstick, bls.....lb. .15 - .16
afloat, bls.....lb. .14½- .15
China, Canton, Kwangsi rolls, select, cs..lb. .13 - .13½
broken, bls.....lb. .12½- .13
Honan, Yunnan, scraped, bls..lb. .20 - .21
broken, bls.....lb. .18½- .19
unscraped, bls.....lb. .18½- .19
broken, bls.....lb. .17 - .17½
Saigon, broken, bls.....lb. .30 - .31
afloat.....lb. .28 - .28½
medium, bls.....lb. .36 - .37
thin, bls., afloat.....lb. .50 - .51
Cassia fistula, bskts lb .30 .35
Castor beans, bgs., f.o.b. Brazilian ports, long ton lb. No prices.
Oil (see Oil, castor).
Pomace, bgs., c.l., works, unit-ton. 5.50 - —
Castoreum, natural, cns lb. 7.00 -30.00
artificial, cns. lb. 9.00 9.25
Catechol, CP, cryst. fib. dms., works lb. 2.00 - —
resublimed, dms., works.....lb. 4.00 - —

Caffeine—Cellulose Acetate-Butyrate

Catnip leaves, bls.....lb. .80 - .85
Celery seed, French, bgs., afloat lb. .33 - .35
Indian, bgs.....lb. .24 - .25
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake ctns., works, frt. alld. on 100 lbs. or more lb. .36 - .38
molding, composition, plain colors, translucent, metallic pearls, special black, dms., c.l., frt. alld lb. 40 —
l.c.l. same basis lb 45 .51
regular, black, dms., l.c.l., same basis lb. .31 - .39
variegations, dms. l.c.l., same basis lb. .50 .58
molding and extrusion transparents, dms. c.l. same basis lb. 47 —
l.c.l. same basis lb 49 .54
extrusion compounds, translucent metallic pearls, special black, dms., c.l., same basis lb. .42 - —
l.c.l. same basis lb 44 .49
Acetate-butyrate, flake, 17% butyryl content, ctns. 500 lbs. or over, works lb. .54 - —
less than 500 lbs., works, lb. .55 - —
17.5% butyryl content, ctns., 500 lbs. or over, works lb. .50 - —
less than 500 lbs., works lb. .51 - —
26.5% butyryl content, ctns., 500 lbs. and over, works lb. .52 - —
less than 500 lbs., works lb. .53 - —
37% butyryl content, ctns., 500 lbs and over, works lb. .52 - .58
less than 500 lbs., works lb. .53 - .58

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Cellulose, Acetate-Butyrate, Flake—Cottonseed Meal

Cellulose, acetate-butyrate, flake, 48% butyryl content, ctnr., 500 lbs. and over, works lb. .57 - —
less than 500 lbs., works lb. .58 - —
molding composition plain colors, pearls, transparents, special black dms. l.c.l. frt. alld. lb .56 .61
regular black dms. l.c.l. same basis lb. .44 .48
variegations, dms., c.l., same basis lb. .61 .68
Triacetate flake ctns. works frt allwd on 100 lbs or more lb .68 - —
Cerium hydrate, dms., works lb 1.75 - —
Oxalate, NF, bbls., bgs., works lb .70 - .72
Oxide, optical grade, bgs. under 100 lbs., works lb 2.25 - —
kgs. 100-lb lots works lb 1.85 - —
Chalk precip. cosmetic dentifrice drugs, bgs., c.l., works lb. .0295- .035
l.c.l., ex whse lb. .0395- .05
paint, bgs. c.l. works ton 40.00 - —
papermakers, bgs. c.l., works ton 32.50 - 40.00
rubber makers, bgs. c.l., works ton 55.00 - 60.00
Chamomile flowers, Hungarian, cs lb. .85 - 1.00
Roman, bls. lb. .80 - .85
Charcoal activated, USP, 6b. dms. c.l., works lb .25 .32
5-ton lots, works lb 26½ .32½
smaller lots, works lb .27 - .50
Bone, NF, bbls lb .23 - —
Hardwood, briquets, bgs., c.l. works ton 51.80 - —
bulk, c.l., works ton 49.80 - —

Charcoal, hardwood, granular, bgs., incl., c.l., works ton 46.80 - 59.00
lump, bgs., extra, returnable c.l., works ton 41.80 - 45.00
bulk, c.l., works ton 38.80 - 43.50
Pinewood, gran., powd., ogs. c.l. works, South ton 40.00 - —
l.c.l., works ton 40.00 - 50.00
lump ogs., c.l., works, South ton 40.00 - —
l.c.l., works, South ton 40.00 - 50.00
bulk, c.l., works, South ton 30.00 - —
Chestnut extract, 25% tannin, bbls., c.l., works lb. .0450- —
l.c.l., works lb. .0485- —
tanks, works lb. .0375- —
powd., 60% tannin, bgs., extra, c.l., works lb. .0972- —
l.c.l., works lb. .1042- .1142
China clay, dom., dry-grd., air-float, 99.75% 300 mesh, bgs., c.l. works ton 12.50 - 13.00
l.c.l., works ton 13.50 - 14.00
bulk, c.l. works ton 9.50 - 10.00
99.75%, 200 mesh, bgs., c.l., works ton 10.00 - 12.00
l.c.l., works ton 11.00 - 16.00
wet-grd., silk-bolt, 99½%, 325 mesh bulk, c.l., works ton 13.00 - —
paper bgs. c.l. works ton 16.00 - —
imported, white, lump, bulk, c.l., ex dock Phila., Portland, Me. gross ton 19.00 - 40.00
powd., ogs. c.l. ex dock net ton 35.00 - 45.00
l.c.l. ex whse net ton 45.00 - 60.00

Chloral, tech., 94% min. dms. c.l., works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, works lb .21 - —
Hydrate, USP, ars lb 1.05 - 1.10
Chloramine T NF bbls. works lb 75 - 1.00
Chlordane, agricultural, dms., pails, c.l. works lb. .65 - —
l.c.l. works lb. .70 - 75
refined, dms., c.l., works lb. .75 - —
l.c.l., works lb. .80 - 85
Chlorinated paraffin dms. frt. alld. lb. .12½- .13¼
Rubber, standard ctns. c.l. works lb. 42 - —
c.l. works lb 43 - —
Chlorine, liquid, cyls., c.l., N.Y. lb. .08¾- —
l.c.l., N.Y., stock points lb. .10¼- —
tanks, single units, works, frt. equald 100 lbs. 2.70 - —
multiple units, 3 cars, works, frt. equald 100 lbs. 3.20 - —
2 cars, same basis 100 lbs. 3.80 - —
1 car, same basis 100 lbs. 4.40 - —
Chloroform, tech. dms., c.l., dlvd. E lb. .18 - .20
l.c.l., same basis lb. .20 - .22
tanks, same basis lb. .16 - —
USP, dms. lb. .30 - .35
Chromyl chloride, diluidine bbls lb 1.38 - —
Chlorophyll, 4% oil soluble, water soluble, cosmetic and pharmaceutical, pails, tins lb 3.75 - 4.25
Chloropicrin, com'l, bots lb. 1.50 - —
cyls., 180 lbs., frt. alld lb. .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
Cholesterol, USP, 6b. dms., 100-lb. lots lb 8.50 - —
5-lb pkg. lb 9.00 - —
1-lb pkg. lb 9.50 - —

Choline bitartrate 6b dms., frt. adjusted lb 2.30 - 2.55
Chloride, 6b dms., same basis lb 2.30 - 2.55
Dihydrogen citrate, 6b dms., same basis lb 2.30 - 2.55
Chromium acetate powd. 72% Cr., bbls. works lb No stocks
solut., 7½% bbls., works lb. .08½- —
cbys lb. .10¼- —
8½%, bbls., works lb. .09 - —
cbys lb. .10¾- —
Fluoride, bbls., works lb 44½- —
Green (see Green chrome).
Oxide (see Green chromium oxide)
Oleate, solid, bbls lb 49 - —
Trioxide, NF, bots lb. .82 - —
Yellow (see Yellow chrome)
Chrysarobin USP, bots lb 7.65 - 9.29
Cinchona bark NF red, quill, 20-inch, cs lb 1.26 - Nom.
broken, bgs. lb. .35 - .46
yellow, broken, ogs lb .32 - .35
Cinchonidine, cryst. ctns. 100 ozs. oz. .71 - .72
Sulphate, ctns., 100 ozs oz. .37 - .40½
Cinchonine, cryst. ctns. 100 ozs. oz. .57 - .65
Sulphate, NF, ctns., 100 ozs oz. .30½- .42
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
Standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms. frt. adjusted lb 4.50 - 4.85
Cinnamic alcohol (see Alcohol, cinnamic)
Aldehyde, NF, ctns., dms lb. 1.00 - 1.26
Cinnamon, Ceylon, No. 2, bls lb. .35 - .35½
Citral, bots, ctns lb. 5.75 - 6.50
Citronellal, bots., dms lb. 4.35 - 7.75
Citronellol, bots., dms lb. 3.45 - 3.70
Civet, bots oz 4.00 - 13.00
artificial, bots lb 13.75 - 15.00
Clove, Madagascar, bls lb. .31 - .32
Zanzibar, bls lb. .30 - .31
Clover tops, red, dom., bgs lb. 1.00 - 1.05
imported, ogs lb. No stocks
CMC, purified, high vis., ctns., 20,000 lbs or over, works, frt. alld lb. .57 - —
smaller lots, same basis lb. .59 - .69
low and medium vis., ctns., 20,000 lbs or over, works, frt. alld lb. .54 - —
smaller lots same basis lb. .56 - .66
tech, low and medium vis., dms., c.l., works, frt. alld lb. .41 - —
l.c.l. works lb. .43 - —
Coaltar, coal gas, water-gas, crude, resale dms c.l. ex-whse, gal. .24 - —
l.c.l., ex-whse gal. .26 - —
tanks, ex-whse. gal. .14½- —
refd., resale bbls c.l. ex-whse, gal. .25 - —
l.c.l., ex-whse gal. .27 - —
tanks, ex-whse gal. .15 - —
Cobalt acetate, bbls. dlvd lb. .53½- —
Carbonate, 46% powd., bgs., works lb. 1.65 - —
Chloride, 24.5% Co. kgs., works. lb. .91¼- —
Hydrate, 60.3% Co bbls lb. 2.13 - —
Linoleate, liquid, 6% Co, dms lb. .48¾- —
fused, 8½% Co, dms lb. .58 - —
Metal, 97.98% kgs. ex-whse lb. 1.80 - —
under 600 lbs ex whse lb. 1.82 - 1.87
Naphthenate, liq., 6% Co, dms lb. .38¾- —
Nitrate, 20.4% Co, bbls lb. .78¾- —
Oxide, black, kgs lb. 1.38 - —
Phosphate, feed grade, 34% Co, kgs. lb. 1.31¼- —
Resinate, fused, 3% Co, dms lb. .23¼- —
Sulphate, bgs. 21% Co. kgs lb 1.05 - —
Cocaine, USP, ctns., 100-oz oz. 15.00 - —
Hydrochloride, ctns. 100-oz. lots oz. 11.75 - —
Cochineal, gray, bgs lb 67 - .68
silver, Teneriffe, bgs lb 69 - .70
Cocillana bark, bgs lb. .17 - .18
Cocoa butter, bgs lb. .68 - .73
Codeine, NF, ctns. 100 ozs oz. 13.25 - —
Hydrochloride, ctns. 100 ozs oz. 11.85 - —
Phosphate, USP, ctns., 100 ozs oz. 10.25 - —
Sulphate, USP, ctns. 100 ozs oz. 10.75 - —
Codliver oil (see Oil codliver).
Cohosh, black root, bls lb. .20 - .25
Blue, root, bls lb. .17 - .18
Colchicine, USP, bots., ctns oz 79.00 - 85.00
Colchicum root, bls lb .60 - .70
Seed, bgs. lb. 1.10 - 1.20
Collodion, USP, dms lb. .34 - —
Flexible, USP, dms lb. .35½- —
Colocynth, pulp, bls lb. .20 - .22
Colombo root, bls lb. .13 - .15
Coltsfoot leaves, bgs lb .30 - .35
Condurango bark, bgs lb. .20 - .24
Copaiba balsam, ctns., dms lb. 1.25 - 1.35
Copper acetate, bbls., c.l., works lb. .37 - —
l.c.l., works lb. .38 - —
Carbonate, 55%, bgs., works lb. .22 - .23¼
Chloride, anhyd., bbls., works lb. .34½- —
crystals, bbls., works lb. .22¾- —
Citrate, USP, 5-lb bots lb. 2.40 - —
Cyanide, tech., bbls lb. .523 - .543
Gluconate, ctns., dms lb. 3.00 - 3.24
Hydrate, dms., frt. alld. E. Miss. lb. .27½- .28
Metal, electrolytic, dlvd lb. .24½- —
Naphthenate, liquid 8% Cu, dms., frt. alld lb. .24¾- —
Nitrate, tech. cryst. bbls. works. lb. .25¼- —
Oleate, liquid, 8.5% Cu bbls lb. .27 - —
solid 10% Cu, bbls lb. .39 - —
Oxide, black, bbls., works lb. .35 - .38
red, com'l, bbls., works, c.l. lb. .37 - .39
l.c.l. lb. .43 - .45
Oxychloride-sulphate, bgs., frt. alld lb. .24¼ Nom.
Quinolate, 6b dms lb 3.50 - —
Resinate, precip., dms., frt. alld. lb. .25¼- —
Stearate, bgs., works lb. .49½- —
Sulphate, cryst., 99%, ogs., c.l., works 100 lbs. 8.95 - 9.95
l.c.l. 100 lbs. 9.95 - 10.95
CP, cryst., gran., bbls., works. lb. .1470- —
monohydrated, 35%, dms., c.l., works 100 lbs. 14.95 - —
tribasic, dealers, bgs., c.l., works, frt. alld lb. .2435- —
l.c.l., works .2585- —
USP, gran., cryst., dms lb. .1470- .26
Undecylenate, dms lb. 2.50 - 2.75
Copperas, cryst., gran., bgs., c.l., works ton 17.00 - —
l.c.l., works 100 lbs. 1.55 - 2.00
bbls., c.l., works ton 20.00 - —
bulk, c.l., works ton 14.00 - —
Copra, c.i.f. Atlantic, Gulf ports ton 217.50 - —
Pacific ports ton 212.50 - —
Coriander seed, Argentine, bgs. lb. .15 - .16
afloat, bgs lb. .15½- —
Italian, bgs lb. No stocks.
Moroccan, bgs lb. .22 - .24
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 6.54 - —
bbls., c.l., same basis 100 lbs. 6.60 - —
Syrup, 42°, bbls., c.l. 100 lbs. 6.82 - —
l.c.l. 100 lbs. 6.97 - —
Cornsilk, bls lb 15 - 19
Corrosive sublimate, NF, cryst. dms., 50 lbs. or more lb. 2.18 - —
gran, powd, dms, 50 lbs or more lb. 2.13 - —
Cottonroot bark, bls lb. .28 - .30
Cottonseed hull ash, 32-36% potash bgs, dlvd unit-ton 1.75 - —
Meal, 41% protein, bulk, Memphis ton 82.00 - —

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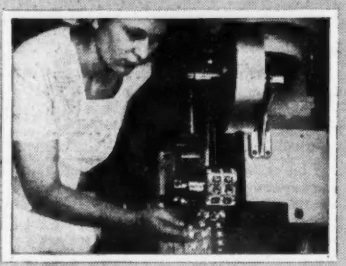

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Coumarin—Dillseed

Coumarin, NF, cns ..... lb 3.00 - 3.25
powd., cans ..... lb 3.25 - 3.50
Cramp bark, NF, bls ..... lb. 1.10 - 1.20
Craneshill root, bls ..... lb. .55 - .60
Cream of tartar, dom., NF, gran. or powd., bbls., 5,000 lbs. one ship lb. .34½- —
smaller lots, bbls., kgs lb. .35 - .36
Creosote coaltar crude, tanks, works, frt. adjusted gal. .20 - —
refined, dms., c.l., works, gal. .35 - —
l.c.l., same basis ..... gal. .41 - —
tanks, same basis ..... gal. .27 - —
solution, 80%, tanks, works, gal. .188 - —
NF, beechwood, cbys., dms.. lb. 1.35 - 1.40
hardwood, bots., cbys ..... lb. 1.05 - 1.10
Pinewood dms ..... gal .31 .43
Carbonate, NF, bots., cbys ..... lb. 2.80 - 2.90
Cresols, tech., dry, above 207°C, non-ret. dms., c.l. frt. equald. lb. .156 - —
l.c.l., same basis ..... lb. .161 - —
ret. dms., c.l., same basis. lb. .155 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .145 - —
USP, non-ret. dms., c.l., same basis lb. .168 - —
l.c.l., same basis ..... lb. .171 - —
ret. dms., c.l., same basis ... lb. .16½- —
l.c.l., same basis ..... lb. .17 - —
tanks, same basis ..... lb. .155 - —
Crotonaldehyde 91-93% dms., c.l works. lb. .22 - —
l.c.l., works ..... lb. .23 - —
Cryolite, nat., dealers, bgs., c.l., works 100 lbs. 13.75 - —
bbls., l.c.l., works ..... 100 lbs. 14.00 - —

Cube root, powd., 5% rotenone, bgs., ton lots, works.. lb. .27 - .30
Cubeb berries, XX NF bgs ..... lb. .55 - .60
powd., cs ..... lb. .65 - .70
Culvers root, bbls ..... lb. .50 - .60
Cumene dms., c.l. ..... lb. .08 - —
l.c.l. ..... lb. .09 - —
tanks ..... gal. .53 - .56
Cumin, seed, Iranian, bgs ..... lb. .26 - .26½
Syrian, bgs ..... lb. No stocks.
Cutch, extract, 55% tannin, bgs. ex dock lb. .06¾- —
Cyanamide, fertilizer mixing grades, 20.6% N, gran., bulk, Niagara Falls, Ont., contracts, ton 46.50 - —
pulv., 21% N, bgs. same basis unit-ton. 2.25 - —
Cyclohexane, tech., dms., c.l., works. lb. .11 - —
l.c.l., works ..... lb. .11¾- —
tanks, works ..... lb. .09¼- —
Cyclohexanol tech. dms., c.l., works. lb. .33½- —
l.c.l., works ..... lb. .34 - —
tanks, works ..... lb. .32 - —
Cyclohexanone, tech., dms., c.l. lb. .26½- .30
l.c.l., works ..... lb. .27 - .31
tanks, works ..... lb. .25 - .29
Cyclohexylamine, dms., c.l., works. lb. .37½- —
l.c.l., works ..... lb. .38½- —
tanks, works ..... lb. .36½- —
Cyclopropane, USP 1 lb. cyls, works. cyl. 40.00 - —
6 oz. cyls., works ..... cyl. 10.50 - —
Hospitals, cyls., 40 gal. lots gal. .32 - —
100-gal. lots ..... gal. .31 - —
200-gal. lots ..... gal. .30 - —

D

2, 4-D bbls., c.l., works frt. equald. lb. .53 - —
l.c.l., same basis ..... lb. .58 - —
Isopropyl ester, dms., c.l., works. lb. .59 - —
l.c.l., works ..... lb. .64 - —
Damiana leaves, bls ..... lb. .35 - .37
Dandelion root, bls ..... lb. .55 - .60
DDD, tech., fine grd. fib. dms., c.l., works lb. .51 - —
l.c.l., works ..... lb. .51½- —
lump, fib. dms., c.l., works .. lb. .49 - —
l.c.l. works .. lb. .49½- —
DDT, fiber dms., c.l., works, frt. equald .. lb. .42 - .43
smaller lots, same basis .. lb. .44 - .45
Decanol, normal, tech., dms., c.l., dlvd .. lb. .38½- —
l.c.l., dlvd ..... lb. .40½- —
tanks, dlvd ..... lb. .36 - —
Deertongue leaves, bls ..... lb. .35 - .40
Defluorinated phosphate, 13% P, paper bgs., works .. ton. 49.25 - —
18½% P, works ..... ton. 62.75 - 63.75
Rock, 14½%P, paper bgs. works .. ton. 50.00 - —
Degras, common, bbls ..... lb. .11 - .12
Neutral, less 2% ffa, bbls .. lb. .21 - .22
over 2% ffa,. bbls lb. .20 - .21
Derris root, 5% rotenone powd .. lb. .35 - .38
Desoxyephedrine hydrochloride, dextro, dms .. lb. 30.00 - 34.00
dextro-laevo, dms ..... lb. 7.50 - —

Dextrin, corn, gum, paper bgs., c.l. ... 100 lbs. 8.15 - —
l.c.l. ..... 100 lbs. 8.30 - —
Chicago, c.l. ..... 100 lbs. 7.50 - —
canary, paper bgs., c.l. ... 100 lbs. 7.89 - —
l.c.l. ..... 100 lbs. 8.04 - —
Chicago, c.l. ..... 100 lbs. 7.24 - —
dark, paper bgs., c.l. .. 100 lbs. 7.99 - —
l.c.l. ..... 100 lbs. 8.14 - —
Chicago, c.l. ..... 100 lbs. 7.24 - —
white, paper bgs., c.l. ..... 100 lbs. 7.74 - —
l.c.l. ..... 100 lbs. 7.89 - —
Chicago, c.l. ..... 100 lbs. 7.09 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs ..... lb. .0860- .0910
Dextrose USP dms ..... lb. .17¾- —
Diacetone (see Alcohol, diacetone)
Diacetyl, flavor grade, bots ..... lb. 5.00 - 5.55
laboratory grade, bots 100 grams 4.50 - —
tech. bots. works lb 3.00 - —
Diamyl ether (see Ether, amyl)
Phthalate, dms., c.l., dlvd. E .. lb. No prices.
l.c.l., dlvd. E ..... lb. No prices.
tanks, dlvd. E ..... lb. No prices.
Dianisidin, dms ..... lb. 1.75 - —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton. 50.00 - 52.00
California ..... ton. 38.00 - 40.00
l.c.l., ex whse ..... ton. 80.00 - —
purified, bgs., c.l., Atl. coast. ton. 62.00 - —
California ..... ton. 50.00 - —
l.c.l., ex whse ..... ton. 90.00 - —
imported, Algerian, bgs., c.l., Atlantic coast ton. No prices.
Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast .. lb. .06 - —
Dibenzyl sebacate, dms., c.l., works. lb. .75¾- —
l.c.l., works ..... lb. .76¾- —
tanks, works ..... lb. .74 - —
Dibutyl phthalate, dms., c.l., dlvd. lb. .36¾- .40¾
l.c.l., dlvd ..... lb. .37¾- .41¾
tanks, dlvd ..... lb. .35 - .39
Sebacate, CP, dms., c.l., works .. lb. .69¼- —
l.c.l., works ..... lb. .70¼- —
tech., dms., c.l., works ..... lb. .67¼- —
l.c.l., works ..... lb. .68¼- —
Tartrate, dms., works, frt. alld. lb. .62 - —
Dibutylamine, dms., c.l., frt. alld .. lb. .54¾- —
l.c.l., frt. alld ..... lb. .55¾- —
tanks, frt. alld ..... lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .41¾- —
l.c.l., dlvd ..... lb. .42¾- —
tanks, dlvd ..... lb. .40 - —
Sebacate, dms., c.l., works .. lb. .63¼- —
l.c.l., works ..... lb. .64¼- —
tanks, works ..... lb. .61½- —
Dichloroanilin, dms., works ..... lb. .75 - .80
Dichlorodiphenyldichloroethane (see DDD).
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .06 - —
l.c.l., works ..... lb. .07 - —
Dichlorophenol, dms., c.l., frt. equald lb. .27 - —
l.c.l. frt. equald ..... lb. .28 - —
Dicyclohexylamine, dms., c.l., works lb. .41¾- —
l.c.l., works ..... lb. .42 - —
tanks, works ..... lb. .40 - —
Dicyclohexylphthalate, fib. dms., c.l., works .. lb. .60 - —
l.c.l., same basis ..... lb. .61 - —
Diethanolamine, dms., c.l., frt. alld., E .. lb. .29¼- —
l.c.l., same basis ..... lb. .30¼- —
tanks, same basis ..... lb. .27½- —
Diethyl carbonate, dms., c.l., frt. alld .. lb. .46¾- —
l.c.l., same basis ..... lb. .47¾- —
tanks, same basis ..... lb. .45 - —
Maleate, dms., c.l., dlvd ..... lb. .50 - —
l.c.l., dlvd ..... lb. .51 - —
tanks, dlvd ..... lb. .48½- —
Oxalate, dms., c.l., frt. alld .. lb. .41¾- —
l.c.l., same basis ..... lb. .42¾- —
tanks, same basis ..... lb. .40 - —
Phthalate, dms., c.l., dlvd ..... lb. .29¾- .31¾
l.c.l., dlvd ..... lb. .30¾- .32¾
tanks, dlvd ..... lb. .28 - .30
Sulphate, dms., c.l., works .... lb. .17¼- —
l.c.l., works ..... lb. .17¾- —
tanks, works ..... lb. .15½- —
Diethylamine, dms., c.l., frt. alld. E .. lb. .62¼- —
l.c.l., same basis ..... lb. .63¼- —
tanks, same basis ..... lb. .60½- —
Diethylanilin, dms. ..... lb. .48 - —
Diethylenegiycol, dms., c.l., frt. alld. E .. lb. .20¼- —
l.c.l., same basis ..... lb. .21¼- —
tanks, same basis ..... lb. .18½- —
Boriborate, dms., l.c.l ..... lb. .28 - —
Diethylether, dms., c.l., works lb. .46½- —
l.c.l., works ..... lb. .47 - —
Monobutylether, dms., c.l., works. lb. .25¾- —
l.c.l., works ..... lb. .26¾- —
tanks, works ..... lb. .24 - —
Monobutylether acetate, dms., c.l., works .. lb. .27¼- —
l.c.l., works ..... lb. .27¾- —
Monoethylether, dms., c.l., works. lb. .19¼- —
l.c.l., works ..... lb. .19¾- —
tanks, works ..... lb. .17½- —
Monoethylether, acetate, dms., c.l., works .. lb. .25¼- —
l.c.l., works ..... lb. .25¾- —
Monomethylether, dms., c.l., works. lb. .23¼- —
l.c.l., works ..... lb. .23¾- —
tanks, works ..... lb. .21½- —
Diethylenetriamine, dms., c.l., works. lb. .42 - —
l.c.l., works ..... lb. .42½- —
tanks, works ..... lb. .40 - —
Diethylethanolamine, dms., c.l., works, frt. alld .. lb. .67½- —
l.c.l., same basis ..... lb. .68½- —
tanks, same basis ..... lb. .65¾- —
Diethylstilbestrol, USP, bots .. kilo. 240.00 - 300.00
Digitalin, cryst., bots ..... gram. 12.50 - 18.00
powd., bots ..... oz. 25.00 - 30.00
Digitalis leaves, dms ..... lb. .85 - 1.25
Digitoxin, USP, bots ..... gram. 3.60 - —
Digiycol, taurate, dms ..... lb. No prices.
Oleate, dms. ..... lb. .38 - —
Stearate, dms. ..... lb. No prices.
Dihexyl sebacate, dms., c.l., works. lb. .51¾- —
l.c.l., works ..... lb. .52¾- —
tanks, works ..... lb. .50 - —
Dihydrostreptomycin hydrochloride and sulphate, hospitals, vials. gram. .60 - —
wholesalers, vials ..... gram. .48 - —
Dihydroxydichlorodiphenylmethane, dms lb. .98 - 1.00
smaller containers ..... lb. 1.65 - 1.68
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15¼- —
l.c.l., dlvd ..... lb. .16¼- —
tanks, dlvd ..... lb. .13½- —
Di-isobutylene, dms., c.l., works lb. .09¼- —
l.c.l., works ..... lb. .10 - —
tanks, works ..... lb. .07½- —
Di-isooctyl phthalate, dms., c.l., dlvd. lb. .41¾- .43
l.c.l., same basis ..... lb. .42¾- .43
tanks, same basis ..... lb. .40 - —
Di-isopropylamine, dms., c.l., frt. alld. lb. .49¾- —
l.c.l., same basis ..... lb. .50¾- —
tanks, same basis ..... lb. .48 - —
Dillseed, dewhiskered, bgs ..... lb. .13½- .14

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824 WHITNEY BUILDING, NEW ORLEANS 12, LA.

Dimethyl chloroacetal, dms., c.l., works lb. .53 - —
l.c.l., works lb. .55 - —
tanks, works lb. .51 - —
Phthalate, dms., c.l., dlvd lb. .25¾ - .27¾
l.c.l., dlvd lb. .26¾ - .28¾
tanks, dlvd lb. .24 - .26
Sebacate, dms., c.l., works lb. .78¾ - —
l.c.l., works lb. .79¾ - —
tanks, works lb. .77 - —
Sulphate, 55-gal. ret. dms., c.l., works lb. 15 —
l.c.l., works lb. .16 - —
10-gal. ret dms., works lb. 40½ —
Dimethylamine, 25%-40% dms., c.l., works, basis 100% lb. .37 .38
l.c.l., works, basis 100% lb. .37½ .38½
tanks, works, basis 100% lb 32 —
Dimethylanilin, dms., c.l., frt. alld. lb. .24 - .26
l.c.l., frt. alld lb. .25 - .27
tanks, frt. alld lb. .23 - .25
Dimethylethanolamine, dms., c.l., dlvd lb 1.43 —
l.c.l., dlvd lb 1.45 —
tanks, dlvd lb 1 40 —
Dinitroanilin, dms., frt. equald lb. .54 - .57
Dinitrobenzene, crude, dms lb. .18 - .20
purified, dms lb. .19½ - .22
Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .18 - —
l.c.l., frt. alld. E lb. .19 - —
tanks, frt. alld. E lb. .17 - —
Dinitropnenol, bbls lb. .31 - .34
Dinitrotoluene, oily, dms lb. .09½ - .10
refd., dms lb. .19 - .21
Dinonylnaphthalene, c.l., dms., work lb. .13 —
l.c.l., dms., works lb. .14 —
tanks works lb 12 —
Dioctyl adipate dms. c.l., works. l.c.l., same basis lb. .43 - .44¼
tanks, same basis lb. .40½ - .41¼
Phthalate, dms., c.l., frt. alld lb. .41½ - .42
l.c.l., frt. alld lb. .42½ - .43
tanks, frt. alld lb. .40 - —
Diorthotolyiguanidin dms. ton lots, dlvd lb. .52 - —
smaller lots, dlvd lb. .53 - —
Dioxan, dms., c.l., frt. alld lb. .23 - —
l.c.l., same basis lb. .25½ - —
tanks, same basis lb. .23½ - —
Dip oil (see far acid oil).
Dipentaerythritol bgs. l.c.l. works lb. .37 - —
Dipentene, dest.-dist., dms., extra, c.l., works, South gal. .38 - —
l.c.l. gal. .39 - —
l.c.l., whse., N. Y. gal. .58 - —
steam-dist., dms., c.l., works, south gal. .35 - —
l.c.l., works, South gal. .46 - —
dlvd. N. Y. gal. .52 - —
Diphenyl, bbls. c.l., works lb. .15 - —
l.c.l., works lb. .16 - .20
Oxide, perfume grade, cns lb. .53 - .91
Phthalate, dms., c.l., works lb. .45 - —
l.c.l., same basis lb. .47 - —
Diphenylamine, refined, gran., bbls., c.l. lb. .28 - —
l.c.l., works lb. .30 - —
tankcars, works lb. .25 - —
tech., tankcars, works lb. .24 - —
Diphenylguanidin, dms., ton lots lb. .43 - —
smaller lots lb. .44 - —
Diphenylhydantoin-sodium USP dms. lb. 4.00 - 4.25
Dipropyleneglycol, dms., c.l., frt. alld lb. .16¾ - .17
l.c.l., same basis lb. .17¾ - .18
tanks, same basis lb. .15 - —
Methylether, dms., c.l., frt. equald. lb. .19¾ —
l.c.l., same basis lb. .20¾ - —
tanks, same oasis lb. .18¼ - —
Ditertiarybutylmetacresol, dms., c.l., works lb. .32 - —
l.c.l., works lb. 33 - —
tanks, works lb. .31 - —
Ditertiarybutylparacresol, dms., c.l., works lb. .91 - —
l.c.l., works lb. .93 - —
Divi-divi, 43% tannin, bgs., bls., c.l., U. S. ports, ex dock ton. No stocks.
Divinylbenzene, 20-25% dms., c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .19 - —
40-50%, on 100% basis, dms., c.l., works lb. 1.23 - —
l.c.l., works lb. 1.35 - —
tanks, works lb. 1.20 - —
Dodecyltoluene dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks works lb .13 - —
Doggrass root, dom., cut, bls lb. .20 .24
imp., NF, cut, bls lb. .30 - .35
Dogwood bark, Jamaica lb. .11 - .13
Dragon s blood drops, cs lb. 45 .47
mass, cs lb 90 1.00
reeds, cs lb. 1.60 - 1.65
Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots, dlvd.:—
Blue, FD&C, No. 1, cns lb.17.00 -17.60
No. 2, cns lb.17.00 -17.60
Green, FD&C, No. 1, cns lb.17.00 -17.60
No. 2, cns lb.22.20 -22.85
No. 3, cns lb.35.25 -35.90
Orange, FD&C, No. 1, cns lb 3.65 3.75
No. 2, cns lb 4.65 4.75
Red, FD&C, No. 1, cns lb 7.55 7.85
No. 2, cns lb 4.00 4.10
No. 3, cns lb.22.20 -22.85
No. 4, cns lb 7.20 7.50
No. 32, cns lb 5.30 5.40
Violet, FD&C, No. 1, cns lb.17.00 -17.60
Yellow, FD&C, No. 1, cns lb.10.50 -11.05
No. 3, cns lb 3.30 3.40
No. 4, cns lb 3.30 3.40
No. 5, cns lb 4.00 4.10
No. 6, cns lb 4.00 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Black, D&C, No. 1, cns lb.10.95 - —
Blue, D&C, No. 4, cns lb.13.55 - —
Brown, D&C, No. 1, cns lb.16.10 - —
Green, D&C, No. 5, cns lb.16.10 - —
No. 6, cns lb.16.10 - —
No. 7, cns lb.14.80 - —
Orange, D&C, No. 3, cns lb.10.95 - —
No. 4, cns lb.20.05 - —
No. 5, cns lb. 5.70 - —
No. 10, cns lb.20.70 - —
Red, D&C, No. 8, cns lb 3.75 - —
No. 9, cns lb 3.75 - —
No. 10, cns lb 3.00 - —
No. 11, cns lb 2.25 - —
No. 12, cns lb 3.00 - —
No 17, cns lb 10.95 - —
No. 18, cns lb.24.00 - —
No. 19, cns lb.20.05 - —
No 21, cns lb 4.70 - —
No 22, cns lb 10.95 - —
No 28, cns lb.24.65 - —
No 33, cns lb 17 45 - —
Violet, D&C, No 2, cns lb 16 10 - —
Yellow, D&C No 7 cns lb 10 95 - —
No 8, cns lb 10 95 - —
No 10 cns lb 13 50 - —
No 11 cns lb 13 50 - —
No 22 cns lb 9 15 - —
No 33, cns lb 14 65 - —
No 37 cns lb 13 55 - —
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb lots, works 25-50 lb. lots, dlvd:—
Blue, Ext. D&C, No. 1, cns lb 16.10 - —
Green, Ext. D&C, No. 1 cns lb 16 10 - —
Red, Ext. D&C, No. 1 cns lb 13 50 - —
Yellow, Ext. D&C, No. 1 cns lb.10 95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).
20 Orange AD lb. .64 - —
27 Fast light orange 2G lb. .76 - —
31 Phloxine 2G lb. .64 - —
36 Alizarine yellow 2G lb. .83 - —
40 Orange R extra, conc lb. 1.06 - —
57 Fuchsine 6B lb. .57 - —
79 Scarlet 2R lb. .74 - —
151 Orange Y lb. .47 - —
161 Orange RR lb. .55 - —
176 Fast red A conc lb. .90 - —
179 Azo rubine XX, conc lb. 1.04 - —
180 Blue F4B lb. .92 - —
185 Brilliant scarlet 3RN, conc lb. .93 - —
202 Chrome blue black, conc lb. .68 - —
203 Chrome black T lb. .71 - —
208 Fast blue 8R lb. .91 - —
216 Chrome red B lb. .84 - —
234 Resorcin brown lb. .89 - —
246 Blue black, extra, conc lb. .86 - —
275 Milling red 3R, conc lb. 2.03 - —
289 Navy blue 3R, conc., 125% lb. 1.09 - —
299 Black F, conc lb. 1.40 - —
304 Neutral black 2B, conc, 200% lb. 2.01 - —
326 Fast scarlet 4BNC lb. 1.64 - —
332 Bismarck brown RX, conc lb. .86 - —
365 Brilliant yellow, conc lb. 2.34 - —
392 Scarlet B lb. 1.65 - —
401 Diazo black, BHD lb. .63 - —
406 Blue, 2B, extra, conc lb. 1.07 - —
419 Diamine fast red FC lb. 1.12 - —
420 Diamine brown M lb. .90 - —
448 Benzo purpurine 4B conc. lb. 1.18 - —
516 Diamine sky blue FF extra conc., 150% lb. 2.25 - —
561 Trisulphon brown BCW, conc. lb. 2.03 - —
581 Direct black E, double lb. .59 - —
593 Diamine green BXN conc. 150% lb. .97 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).
596 Congo brown GG, conc. 150% lb. 1.46 - —
620 Stilbene yellow G, conc lb. .92 - —
639 Xylene light yellow GX lb. 1.79 - —
640 Tartrazine conc lb. 1.46 - —
655 Auramine conc lb. 1.85 - —
657 Victoria green, sml. cryst. lb. 2.10 - —
662 Brilliant green cryst lb. 2.79 - —
667 Brilliant milling green B conc. lb. 3.68 - —
671 Brilliant blue E lb. 1.73 - —
680 Methyl violet S, conc lb. 1.10 - —
681 Crystal violet powder lb. 2.15 - —
698 Formyl violet S4B lb. 1.58 - —
720 Chrome azure blue BR conc. 200% lb. 3.75 - —
729 Victoria blue B conc lb. 2.79 - —
739 Green SN extra lb. 2.41 - —
749 Rhodamine B extra lb. 4.33 - —
814 Fast yellow NNL conc. 175% lb. 3.11 - —
841 Safranine T extra, conc., 125% lb. 2.90 - —
865 Nigrosine WSJ lb. .68 - —
922 Methylene blue ZX lb. 1.55 - —
969 Sulphanthrene blue GR paste, lb. .76 - —
978 Sulphogene carbon HCF grains lb. .32 - —
1034 Alizarin red S, conc lb. 2.59 - —
1054 Anthraquinone blue B lb. 2.91 - —
1078 Anthraquinone green G lb. 2.72 - —
1085 Alizarin blue black B lb. 2.33 - —
1096 Indanthrene golden orange G, single paste lb. 2.00 - —
double paste lb. 4.00 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype).
1099 Indanthrene dark blue BO, single paste lb. 1.73 - —
1101 Brilliant green B, double paste lb. 2.36 - —
1106 Indanthrene blue RS, double paste lb. 2.57 - —
1113 Indanthrene blue GCD, double paste lb. 1.73 - —
1150 Indanthrene olive R, single paste lb. 1.10 - —
1151 Indanthrene brown R, single paste lb. 1.68 - —
double paste lb. 3.35 - —
1212 Sulphanthrene red violet 2RN, single paste lb. 1.62 - —
1217 Sulphanthrene orange R, single paste lb. 1.65 - —
p-4 Acid anthracine brown PGN, lb. 2.31 - —
p-14 Anthracene chromate brown EBN lb. 1.31 - —
p-24 Benzo fast black L conc., 150% lb. 2.18 - —
p-80 Diazo brilliant scarlet ROA lb. 2.79 - —
p-202 Zambesi black V lb. 1.06 - —
p-244 Celliton scarlet B lb. 1.31 - —
p-313 Naphthol AS-SW lb. 2.42 - —
Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.
Black, blue, No. 550 lb. .81 - —
Jet, No. 551 lb. .89 - —
Brown, R, conc lb. 1.72 - —
Orange R, brilliant lb. .90 - —
Red 4 B, conc lb. 1.37 - —
Yellow, C lb. 1.18 - —
FN, conc lb. 1.22 - —

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ITEM or GROUPS of ITEMS	MANUFACTURER A	MANUFACTURER B	MANUFACTURER C	MANUFACTURER D
BISMUTHS	X	X	X	X
BROMIDES	X	X	X	X
CINCHONA SALTS	X	X		X
GLUCONATES		X		X
IODIDES	X	X	X	X
IRON SALTS	X	X	X	X
MAGNESIUM TRISILICATE			X	X
MANDELATES		X	X	X
MERCURIALS	X	X	X	X
PHENOBARBITALS	X	X		X
PHENOLSULFONATES		X	X	X
SALICYLATES	X	X	X	X
STEARATES	X	X	X	X
SULFA DRUGS		X	X	X
VITAMINS	X	X		
OTHERS	X			

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Dyes, Coaltar, for Stains, Spirit-Soluble—Formaldehyde

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works.
- Auramine, O. lb. 1.85 - —
- Black, basic, blue lb. 1.21 - —
- Jet lb. 1.21 - —
- Blue, methylene, 2 B, conc lb. 1.55 - —
- Brown, Bismarck, R, conc lb. .86 - —
- Chrysodine, R, extra lb. .60 - —
- Y, extra lb. .64 - —
- Fuchsine, conc lb. 3.08 - —
- Green, malachite, conc lb. 2.10 - —
- Rhodamine, B lb. 4.33 - —
- Safranine, Y, conc lb. 2.90 - —
- Violet, methyl, B lb. 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works.
- Azo rubine R, extra, conc lb. 1.04 - —
- Black, acid blue, B, extra lb. .86 - —
- Orange, Acid, Y, conc lb. .47 - —
- Scarlet, croceine, MOO lb. 1.45 - —
- Yellow, azo-, conc lb. .90 - —
- Fast light, 3 G, extra lb. 2.04 - —
- Methanil, conc lb. .91 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls lb. .65 - .70

Egg albumen (see Albumen).

Yolk, dried, dom., bbls lb. 1.16 - 1.18
Chinese, spot, bbls., duty paid lb. .90 - .92
tanners, bbls lb. .07½ - .08

Elder flowers, bright, bls lb. .45 - .50

Elecampane root, bls lb. .32 - .35

Elm bark, grinding, bls lb. .30 - .35
powd., bbls., bxs lb. .40 - .45
select, bndls lb. .50 - .55

Emetine hydrochloride, USP, bats oz. 37.50 -40.00

Ephedra herb, bls lb. .30 - .32

Ephedrine, synthetic, USP, anhydrous, bots., 100 ozs oz. .98 - —
hydrous, bots., 100 ozs oz. .92 - —
Hydrochloride, tin, 100 ozs oz. .75 - —
Sulphate, cryst., tins, 100 ozs. oz. .72 - —
powd., tins, 100 ozs oz. .73 - —

Epichlorohydrin, dms., c.l., works lb. .36¾ -
l.c.l., works lb. .37½ -
tanks, works lb. .35 - —

Epinephrine, synth., USP, bots., 100 grams gram .50 - .60

Epsom salt, tech., bgs. c.l., works, 100 lbs. 2.15 - —
l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
smaller lots 100 lbs 3.35 - —

Ergosterol, unirradiated, cryst kilo. 140.00 - —

Ergot, NF, dms., tin-lined lb. No prices.

Eserine, bots. oz. 45.00 -50.00

Salicylate, USP, bots oz. 33.00 -34.00

Sulphate, bots. oz. 32.00 -36.00

Ether, acetate (see Ethyl acetate).

Butyl, dms., c.l., works lb. .32½ - —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —

Butyric (see Ethyl butyrate).

Dichloroethyl, purif., dms., frt. equald lb. .14 - —
l.c.l., same basis lb. .14½ - —
tanks, same basis lb. .13 - —
technical, dms., c.l., works lb. .13 - —
l.c.l., works lb. .13½ -
tanks, works lb. .12 - —

Ether, divinyl, USP, anesthesia, bots., 50 cc. hospitals bot. 1.00 - —
75 cc. hospitals bot. 1.56 - —
NF, dms., dlvd lb. .25 - —

Ethyl, absolute, ACS, dms lb. .30 - —
anesthesia, USP, hospital, cns. lb. .75 - .90
Industrial, USP, dms., c.l., dlvd. lb. .21 - —
l.c.l., same basis lb. .23 - —
tanks, same basis lb. .19 - —
synthetic, dms., incl., dlvd. East. lb. .14 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .12 - —

Isopropyl, dms., c.l., dlvd lb. .06¾ -
l.c.l., dlvd lb. .07½ -
tanks, dlvd lb. .05 - —

Nitrous, conc., bots., 100 lbs lb. 1.03 - 1.10

Ethyl acetate, natural, fermentation, 85-88%, dms., c.l., frt. alld. lb. .19¾ - .21¾
l.c.l., frt. alld lb. .20¾ - .22¾
tanks, frt. alld lb. .18 - .20
95-98%, dms., c.l., frt. alld. lb. .20¼ - .22
l.c.l., frt. alld lb. .21¼ - .23
tanks, frt. alld lb. .18½ - .20¼
99%, dms., c.l., frt. alld lb. .20¼ - .22¼
l.c.l., frt. alld lb. .21¼ - .22¼
tanks, frt. alld lb. .18½ - .20½
NF, dms., frt. alld lb. .24 - .25
synthetic, 85-90%, dms., c.l., frt. alld lb. .13¾ -
l.c.l., frt. alld lb. .14¾ -
tanks, frt. alld lb. .12 - —
95-98%, c.l., frt. alld lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, frt. alld lb. .12¼ - —
99%, dms., c.l., frt. alld lb. .14¼ - —
l.c.l., frt. alld lb. .15¼ - —
tanks, frt. alld lb. .12½ - —

Ethyl acetoacetate, dms., c.l., dlvd. lb. .55 - .59½
l.c.l., dlvd lb. .56½ - .60½

Acrylate, dms., c.l., and truckload, works lb. .49 - —
less than truckload, works lb. .49½ - —
tanks, works lb. .48 - —

Benzoate, dms lb. .70 - .75

Betaethoxypropionate dms. works lb. .70

Bromide, tech., 98%, dms lb. .41 - .43

Butyrate, bots gal. 5.10 - 6.00
cns, works lb. .68 - .87
dms., works lb. .60 —

Carbamate (see Urethane).

Chloride, tech., dms., c.l., frt. alld. E. lb. .16 - .18
l.c.l., same basis lb. .18 - .20
tanks, same basis lb. .13½ -
USP, bbls., cyl lb. .20 - .22

Cinnamate, cns lb. 2.25 - 2.50

Formate, dms lb. .55 - .65

Gallate, dms., 100 lb. to 2,000 lb. lots, works lb. 3.90 - 4.40

Iodide, bots., works lb. 3.88 - 4.27

Lactate, dms., works lb. .42¼ - —

Methacrylate, dms., c.l. and truckload, works lb. .50 —
less than truckload, works lb. .50½ - .60

Nitrite (see Ether, nitrous)

Oenanthate, dms lb. .95 - 1.50

Oleate, dms., l.c.l., works lb. No prices.

Oxalate (see Diethyl oxalate).

Silicate, dist. (see Tetraethyl orthosilicate).
40% available SiO_2, dms. works lb. .55 - —

Ethylalphanaphthylamine (see Monoethylalphanaphthylamine).

Ethylaniline, dms., frt. alld lb. .50 - —

Ethylbenzene, dms., c.l lb. .14 - —
l.c.l. lb. .15 - —
tanks lb. .13 - —

Ethylbutyl ketone, dms., c.l., works. lb. .31½ - —
l.c.l., works lb. .32 - —
tanks lb. .30 - —

Ethylcellulose, 6cb, dms., 5,000 lbs., works lb. .54 - —
smaller lots, works lb. .56 - .64

Ethylene dichloride, dms., c.l., works, frt. alld. & E. of Rockies lb. .10¾ - .11¾
l.c.l., works, frt. alld. E. of Rockies lb. .11¾ - .12¾
tanks, frt. alld., E. Rockies lb. .09 - .10
Prices West of Rockies, 1c. per lb. higher.

Oxide, cyls., c.l., frt. equald lb. .26¼ - —
l.c.l., frt. equald lb. .27¼ - —
tanks, frt. dlvd lb. .19¼ - —

Trichloride (see Trichloroethane)

Ethylenediamine, dms., c.l., works lb. .42 —
l.c.l., works lb. .42½ - —
tanks, works lb. .40 - —

Ethyleneglycol, dms., c.l., frt. alld. E. lb. .18¾ - —
l.c.l., same basis lb. .19¾ - —
tanks, same basis lb. .17 - —

Diethylether, dms., l.c.l. works lb. .55 - —

Monobutylether, dms., c.l., works. lb. .21¾ - —
l.c.l., works lb. .22¾ - —
tanks, works lb. .20 - —

Monoethylether, dms., c.l., works. lb. .19¼ - —
l.c.l., works lb. .19¾ - —
tanks, works lb. .17½ - —

Monoethylether acetate, dms., c.l., works lb. .18¼ - —
l.c.l., works lb. .18¾ - —
tanks, works lb. .16½ - —

Monomethylether, dms., c.l., works. lb. .20¾ - —
l.c.l., works lb. .21¼ - —
tanks, works lb. .19 - —

Monomethylether acetate, dms., c.l., works lb. .25¾ - —
l.c.l., works lb. .26¼ - —
tanks, works lb. .24 - —

Monostearate, dms lb. .33 - —

Ethylethanolamines, mixed, dms., c.l., frt. alld., E. Miss lb. .42 - —
l.c.l., same basis lb. .43 - —
tanks, same basis lb. .40 - —

Ethylmorphine hydrochloride, USP bots oz. 11.85 - —

Ethylorthotoluidine (see Monoethylorthotoluidine).

Ethylvanillin, cns., 3 lbs. or more lb 6.75 - —
smaller lots lb 6.80 6.90

Eucalyptol, USP, cns., dms lb. 2.25 - 2.30

Euphorbia, pil, herb, bls lb. .16 - .18

Eugenol, pure, USP, cns lb. 3.00 - 3.42

Euphorbia, herb, bls lb. .18 - .20

F

Feldspar, enamel, 100 mesh, bgs., works ton. 20.00 -22.00

Glass, 20 mesh, bulk, tons, works. ton. 11.75 -12.50

Pottery, bgs., ton lots, works ton. 20.00 -22.00
bulk, c.l., works ton. 18.00 -20.00

Fennel seed, Czech., dark, bgs. lb. .11½ - .12
French, bgs lb. .13¾ - .14
Indian, bgs. lb. .14 - .15
Syrian, bgs. lb. .12 - .12½

Fenugreek seed, domestic, bgs lb. No stocks.
Indian, bgs lb. .11 - .11½
Moroccan, bgs. lb. .06½ - .07
Syrian, bgs lb. .06¾ - .07

Ferric-ammonium citrate (see Iron-ammonium citrate)

Ferric cacodylate (see Iron cacodylate).

Ferric glycerophosphate (see Iron-glycerophosphate).

Ferric hypophosphite (see Iron hypophosphite).

Ferric sulphate (see Iron sulphate, ferric).

Film scrap, colored, cs., works lb. .11½ - —
water-white, cs., works lb. .13½ - —

Fir balsam, Canada, cns gal. 31.50 -32.50
Oregon, bbls. gal. 2.55 - 2.60

Fishberries, bgs lb. .20 - .25

Fishliver oil (see Oil, fishliver).

Fishmeal, ground, 60% protein, bgs., Balto area ton. 130.00 -135.00

Fishscrap, dried, 60% protein, bulk, Balto. area ton. 127.50 -132.50

Fluorspar, acid grade, bgs., c.i. mines ton. 47.50 - —
l.c.l., mines ton. 49.50 - —
bulk, contract, c.l., mines ton. 42.00 - —
noncontract, c.l., mines ton. 45.00 - —
l.c.l. mines ton 47.00 - —
ceramic grade, No. 1, ground, 90-92% CaF_2, bulk, c.l. mines net ton. 37.00 - —
powd., 90-92% ton. 41.00 - —
foundry grade, lump, 55-60%, ton. 34.00 - —
washed, gravel, 70% or more, CaF_2, bulk, c.l., mines ton. 37.00 - —
65%, bulk, c.l., mines ton. 36.00 - —
60%, bulk, c.l., mines ton. 34.00 - —
less than 60% bulk c.l., mines ton. 32.00 -34.00

Formaldehyde, USP, (inhibited), dms., c.l., E. works lb. .0300 - .0655
l.c.l., E. works lb. .0650 - .0705
tanks, E. works lb. .045 - —

Alkyl Phenol C-9

Jefferson's new chemical { *intermediate* / *stabilizer* / *plasticizer*

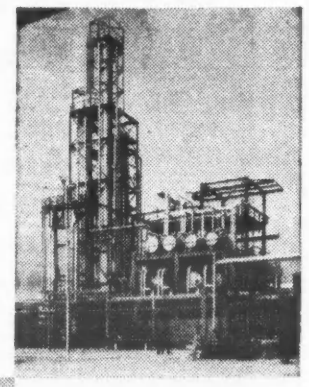
Properties of Jefferson Alkyl Phenol C-9 indicate a wide range of application as

1. an intermediate for non-ionic detergents
2. a stabilizer for ethyl cellulose
3. a plasticizer for cellulose esters
4. an intermediate for other plasticizers
5. a starting material for production of lubricating oil additives and rubber chemicals
6. an antioxidant

A typical description of Jefferson Alkyl Phenol C-9 is:

Specific Gravity 20/4°C.	0.949
Hydroxyl No.	255
APHA Color	100
Refractive Index (20°C.)	1.5140
Flash Point (TOC°F.)	300
ASTM°C.	
IBP	290.0
5 ml.	293.0
50 ml.	295.0
95 ml.	296.5
E.P.	298.0

You may secure technical information and experimental samples for research and product development by writing—on your company letterhead, please: Market Development Division, Department A.



Compressor piping frames this picture of a Jefferson ethylene unit (purification section) at Port Neches, Texas.

Jefferson Chemical Company, Inc.

711 FIFTH AVE., NEW YORK 22, N.Y.

ESSENTIAL CHEMICALS FROM HYDROCARBON SOURCES

ETHYLENE OXIDE
DIETHYLENE GLYCOL
ETHYLENE DICHLORIDE
ETHYLENE GLYCOL

Attention...

LARGE & SMALL MANUFACTURERS:

don't

sell your drums at ANY PRICE

SPECULATORS - EXPORTERS - SCRAP DEALERS

want your STEEL DRUMS

Prepare for...avoid... STEEL DRUM

SHORTAGE !

We will retain your steel drums for your own needs. Allocations and restrictive orders are coming. Don't waste steel drums . . .

SHIP CARLOADS FROM EAST of MISSISSIPPI only

freight collect

REMEMBER:

Government and Military needs come *first!*

Regardless of condition or previous contents . . . **RETURN ALL EMPTY STEEL DRUMS TO.....**

You may also return deposit drums.

no storage charges

We'll guarantee credit from your supplier for full amount of deposit charged.

Your drums will be retained for YOUR ACCOUNT

Your drums will be returned to your raw materials suppliers after re-conditioning.

UNIFORM STRAIGHT BILL OF LADING—ORIGINAL—NOT NEGOTIABLE

(YOUR RAILROAD)

Agent's No.

At _____ 19____ From _____

Consigned to: GENERAL DRUM TERMINAL

Destination: LINDEN, N. J.

Delivery Carrier: PENNSYLVANIA R. R.

No. Pkgs.	DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	*Weight (Subject to Correction)	*Class or Rate	Check Col.
200/300	Used Empty Steel Drums			
	16 & 18 Gauge	Min.		

SHIP TO: **GENERAL DRUM TERMINAL** PENNSYLVANIA R. R LINDEN, N. J.

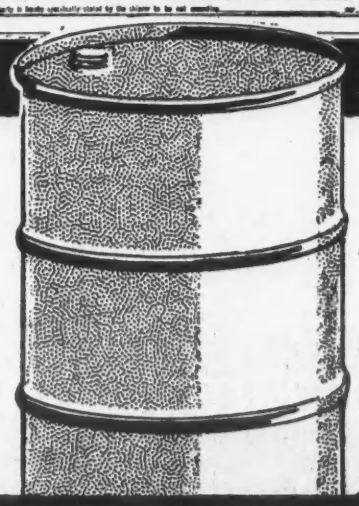
A non-profit Terminal, created by the largest steel drum organization in the world . . . . for the purpose of conserving steel drums during the emergency

ACME STEEL DRUM CO. *Newark, N. J.*

NEWARK STEEL DRUM CO. *Linden, N. J.*

Send a complete memorandum billing for shipments to:
Accounting Dept., GENERAL DRUM TERMINAL, P. O. Box 192, Linden, N. J.

Bonded acknowledgment & warehouse receipt will be mailed on receipt of your shipment.



references:

FEDERAL Trust Co. Newark, N. J.

LINDEN Trust Co. Linden, N. J.

CENTRAL Home Trust Elizabeth, N. J.

FIDELITY Union Trust Newark, N. J.

PHONE: Linden 2-4466

SHIP CARLOADS ONLY. WRITE or PHONE us about SMALLER QUANTITIES.

PHONE: Linden 2-4466

Formaldehyde, Methanol-Free—Gum, Copal

Formaldehyde, methanol-free (uninhibited), tanks, works..lb. .0425- —
Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware (in states other than Eastern Seaboard, as well as W. of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.
Fleaseed (see Psyllium seed).
Fringetree bark, bls.....lb. .53 - .62
Fuller's earth dom. powd., bgs., c.l., Fla. Ga. mines ton.30.00 - —
Tex. mines ton.27.00 - —
spent, bulk, Bayonne ton. 2.00 4.00
imported, bgs. c.l. ton.30.00 40.00
Furfural, tech., dms., c.l., works lb. .12 - —
l.c.l. works lb. .14 - —
tanks, works lb. 09½- —
Fusel oil, refined, dms., c.l., dlvd.lb. .28¾- .29¾
l.c.l. dlvd. .....lb. .29¾- .30¾
tanks, dlvd. .....lb. .27 - .28
Fustic extract cryst., No. 1, bbls., l.c.l lb. .42½- —
No. 1A, bbls., l.c.l.....lb. .41½- —
No. 2, bbls., l.c.l.....lb. .40½- —
No. 3, bbls., l.c.l.....lb. .38½- —
liquid, No. 0, bbls., l.c.l.....lb. .22 - —
No. 1, bbls., l.c.l.....lb. .20½- —
No. 2, bbls., l.c.l.....lb. .19½- —
No. 3, bbls., l.c.l.....lb. .17 - —
solid, No. 1, bxs., l.c.l.....lb. .58 - .60

G

G salt, bbls., frt. alld.....lb. .66 - .73
Galangal root, bls.....lb. .18 - .25
Gambier, plantation, bgs., ex dock.lb No stocks.
Extract, bbls..... No stocks.
Gammapicoline, 95%, dms., c.l., works..lb. 1.00 - 1.05
Gasoline, at refinery, ex tax, Arkansas, 80 octane, tanks.. gal. .1075- —
N. Y. Harbor, 81 octane, tanks. gal. .1285- .136
Gulf coast, 82 octane, tanks.. gal. .105 - .11
Group 3, 82 octane, tanks.. gal. .10375- .1075
Pennsylvania, western, U. S. motor, 83 octane, tanks gal. .1275- .13
natural, 26-70 octane group 3, tanks..gal. .06375- —
Gelatin, silver tanel, imported, cs lb. 1.15 - —
Gelsemium root, bls.....lb. .30 - .32
Gentian root, bls.....lb. .16 - .18
grd., bbls., bxs.....lb. .20 - .22
powd., bbls., bxs.....lb. .21 - .23
Geraniol, extra, cns., dms.....lb. 2.60 - 3.20
prime, cns., dms.....lb. 2.20 - 2.40
Geranyl acetate, cns.....lb. 2.60 - 3.00
Ginger, oleoresin, NF, from African root, bots lb. 7.75 - 9.50
from Jamaican root, bots..lb.10.50 -14.00
Root, African, bls.....lb. .41 - .42
Cochin, bleached, bgs., futures, lb. No stocks,
unbleached, bgs. .....lb. .50 - .51
Jamaica, No. 1, bgs.....lb. .63 - .64
No. 2, bgs.....lb. .62 - .63
No. 3, bgs.....lb. .60 - .61
January-March shipment, lb. .48 - .49
Rhattoon, bgs.....lb. .50 Nom.
Nigerian, split, bgs.....lb. .36 Nom.
Ginseng root cs.....lb.13.00 -16.00
Glauber's salt, anhyd. (see Sodium sulphate).
cryst., bgs., c.l., works, frt. alld. ton.45.00 - —
l.c.l., works..... ton.50.00 - —
Glue, bone, calcium type 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest . lb. .20½- —
65 jellygrams, bgs., c.l., same basis. lb. .22½- —
80 jellygrams, bgs. c.l., same basis lb. .24 - —
110 jellygrams, bgs., c.l., same basis lb. .25 - —
130 jellygrams, bgs., c.l., same basis lb. .26 - —
Over 150 jellygrams, bgs., c.l., same basis lb. .27 - —
Bone glue, l.c.l., 1c. per lb. higher than c.l.
ground, 65 jellygrams, bgs., c.l., (50,000 lbs.), dlvd. lb. .22½- —
l.c.l., same basis.... lb. .23½- —
Hide, 100-121 (jellygrams), bgs., c.l., dlvd lb. .26 - .28
122-149, bgs., c.l., dlvd .....lb. .27 - .30
150-177, bgs., c.l., dlvd .....lb. .28 - .31
178-206, bgs., c.l., dlvd .....lb. .29 - .33
207-236, bgs., c.l., dlvd .....lb. .30 - .34
237-266, bgs., c.l., dlvd .....lb. .31 - .35
267-296, bgs., c.l., dlvd .....lb. .32 - .36
299-330, bgs., c.l., dlvd .....lb. .33 - .37
331-362, bgs., c.l., dlvd .....lb. .34 - .37
363-394, bgs., c.l., dlvd .....lb. .35 - .38
395-427, bgs., c.l., dlvd .....lb. .36 - .39
428-460, bgs., c.l., dlvd .....lb. .37 - .40¼
461-494, bgs., c.l., dlvd .....lb. .38 - .42
495-529, bgs., c.l., dlvd .....lb. .39 - .43
Hide glue, l.c.l., prices 1c. higher than c.l. bbls. ½c. more than bgs.

Glycerin, crude, saponification, 86%, to refiners, tanks, dlvd..lb. .50 - .52
soaplye, 80%, tanks, dlvd....lb. .45 - .53
dynamite, dms., c.l., dlvd.....lb. .49 - .50
l.c.l., dlvd. .....lb. .49½- .50½
tanks, dlvd. .....lb. .48½- .57½
high gravity, dms., c.l., dlvd..lb. .49¼- .58
l.c.l., dlvd. .....lb. .49¾- .58½
tanks, dlvd. .....lb. .48¾- .57½
refined, BP, 98%, dms., c.l., dlvd. lb. .50½- .60
l.c.l., dlvd. .....lb. .51 - .60½
tanks, dlvd. .....lb. .50 - .59½
USP, c.p., 95%, dms., c.l., dlvd. lb. .49¾- .58½
l.c.l., dlvd. .....lb. .50¼- .59
tanks, dlvd. .....lb. .49¼- .58
yellow, distilled, dms., c.l., dlvd.lb. .49½- .54½
l.c.l., dlvd. .....lb. .49⅝- .58⅝
tanks, dlvd. .....lb. .48⅜- .57⅛
Glycine USP (see Acid, aminoacetic).
Glyoxal, 30%, dms., c.l., works lb. .18½- —
l.c.l., works.....lb. .19 - —
tanks, works .....lb. .18 - —
Gold chloride, acid-brown, bots oz.22.50 -23.00
acid-yellow, bots .....oz.20.50 - —
Gold of pleasure seed bgs., futures lb. .13 - .13¼
Goldenseal root, bls.....lb. 3.75 - 4.25
powd., bxs. .....lb. 4.25 - 4.75
Gold-sodium chloride, photo, bots. oz.13.00 -14.00
USP IX, bots .....oz.14.50 -15.50
Grains of paradise, bgs.....lb. .42 - .45
Graphite, imported, amorph, powd., bgs., dlvd lb. No prices.
crystalline, 88-90%, powd., bgs., ex whse lb. No prices.
90-92%, powd., bgs., ex whse, lb. No prices.
97%, powd., bgs., ex whse lb. No prices.
flake, No. 1 90-95%, bgs., ctns., ex whse lb. No prices.
No. 2, bgs, whse.....lb. No prices.
Grease, house, loose, dlvd.....lb. .13¾ Nom.
White, choice, loose .....lb. .15½ Nom.
Wool (see Degras and Lanolin).
Yellow, loose .....lb. .14¼ Nom.
Green, brilliant, thioflavin, toner, molybdic, kgs., works lb. 4.25 - 4.50
Tungstic, kgs., works lb. 4.25 - 4.50
16-20% bbls. same basis lb. .36½- —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. .34 - .35
6-10%, bbls., same basis lb. .35 - .36
11-15%, bbls., same basis lb. .36 - .37
16-20%, bbls., same basis lb. .36½- .37½
21-25%, bbls., same basis lb. .37½- .38½
26-30%, bbls., same basis lb. .37¾- .38¾
31-35%, bbls., same basis lb. .38¼- .39¼
36-40%, bbls., same basis lb. .40½- .41½
41-45%, bbls., same basis lb. .42 - .43
46-50%, bbls., same basis lb. .24¼- .25¼
50% and over, bbls., same basis lb. .45¾- .46¾
reduced color, 5%, bbls., same basis lb. .12½- —
6-10%, bbls., same basis lb. .13¼- —
11-13%, bbls., same basis lb. .13¾- —
14-16%, bbls., same basis lb. .14½- —
17-19% bbls., same basis lb. .14¾- —
20-21%, bbls., same basis lb. .15 - —
22-23%, bbls., same basis lb. .15¼- —
24-25%, bbls., same basis lb. .15¼- —
26-27%, bbls., same basis lb. .15¾- —
28-29%, bbls., same basis lb. .16¼- —
30-31%, bbls., same basis lb. .17¼- —
32-33%, bbls., same basis lb. .18½- —
34-35%, bbls., same basis lb. .19½- —
36-40%, bbls., same basis lb. .41¾- —
41-45%, bbls., same basis lb. .24½- —
46-50%, bbls., same basis lb. .26 - —
51-55%, bbls., same basis lb. .25¾- —
56-60%, bbls., same basis lb. .26¼- —
61-65%, bbls., same basis lb. .27¼- —
66-70%, bbls., same basis lb. .28½- —
Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Chromium oxide, hydrated, l.c.l., bbls., dms., frt. alld. lb. .95 - 1.05
pure, c.l., bgs., frt. alld..... lb. .37½- .44
Dyes (see Dyes, coaltar).
Malachite thioflavin toner, molybdic, bbls., works lb 3.00 - —
Tungstic, bbls. works lb 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works, lb 4.40 9.00
Tungstated, brilliant, kgs..... lb. 3.00 - 4.00
Emerald, kgs lb 2.60 —
Grindelia robusta herb, bls.....lb. .24 - .30
Guaiac resin, NF, cs.....lb. .60 - .65
ordinary, cs.....lb. .49 - .51
Wood, bls .....lb. .35 - .36
Guaiacol, cryst., tins.....lb. 1.90 - —
Liquid, NF, bots., cbys.....lb. 2.15 - 2.20
Carbonate, dms. .....lb. 3.15 - 3.20
Guarana, powd., cs.....lb. 1.50 - 1.75
Gum, accroides (see Gum, yacca).
Aloe (see A.).
Ammoniac, tears, cs lb .90 .95
Arabic, amber, sorts, bgs.....lb. .14½- .15
powdered, USP, bbls.....lb. .19 - .21
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .50 - .70
Camphor (see C).
Copal, Congo No. 1, bgs.....lb. .25 - .26
No. 2, bgs.....lb. .20 - .22
No. 3, bgs .....lb. .17½- .19¼
Manila, ooba, B, bgs.....lb. No prices.
C, bgs .....lb. .28 - .30
CBB, bgs.....lb. .26 - .27
CNE, bgs. .....lb No prices.
DBB, bgs.....lb. .25 - .28
DK, bgs .....lb. .18 - .24
dust, bgs .....lb. .07½- .09
soft, MA, bgs.....lb. .19 - .21
WS, bgs. .....lb. No prices.

MONTROSE MONTROSE MONTROSE
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MON NTROSE
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MONTRO ROSE
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DDT Government Specifications
2, 4-D Acid, Salt and Isopropyl Ester
TRICRESYL PHOSPHATE
ERGOSTEROL
(Non Irradiated)
MONTROSE CHEMICAL COMPANY
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N. Y. TRIBUNE TOWER, CHICAGO, ILLINOIS

Gum, copal, Philippine, pale, chips, bgs	lb.	.22	.24
nubs, bgs	lb.	.20	.22
seeds, bgs	lb.	.19	.21
sorts, bgs	lb.	.20	.22
Pontianak, chips, bgs	lb.	.19	.22
nubs, bgs	lb.	.20	.22
Dammar, Batavia, A/E, bgs	lb.	.23	.25
dust, bgs	lb.	.08	.10
E, bgs	lb.	.12½	.14½
East India, batu, bold, bgs	lb.	.13½	.14½
nubs and chips, bgs	lb.	.07½	.10
bald, bold, bgs	lb.	.13½	.14½
unscraped, bgs	lb.	.11	.12
nubs and chips, bgs	lb.	.10	.11
pale, chips, bgs	lb.	.14	.16
nubs, bgs	lb.	.23	.26
Singapore, No. 1, bgs	lb.	.34	.36
No. 2, bgs	lb.	.23	.25
No. 3, bgs	lb.	.09½	.11
dust, bgs	lb.	.09¼	.11
seeds, bgs	lb.	.12½	.13½
Elemi, cns	lb.	.23	.24
Ester, gum-rosin type, dms., c.l., dlvd. Ill., Ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va	lb.	.12	.12½
wood-rosin type, dms., c.l., dlvd. Ill., Ind., etc	lb.	.12	.12½
Euphorbium, cs	lb.	.35	.40
Galbanum cs	lb.	.75	.80
Gamboge, pipe, cs	lb.	1.00	1.05
powd., bbls	lb.	1.15	1.20
Ghatti, No. 2, bgs	lb	.35	.37
No. 3, bgs	lb	.31	.33
Guaiac (see Guaiac resin).			
Karaya, powd., No. 1, bbls	lb.	.55	.65
No. 2, bbls	lb.	.45	.50
No. 3, bbls	lb.	.39	.45
Kauri, bgs	lb.	.31½	.32¾
Locust bean, powd., bgs	lb.	.44	.50
Mastic, cs	lb	2.25	2.50
Myrrh, cs	lb.	.30	.35
Olibanum, siftings, cs	lb.	.12	.13
tears, cs	lb.	.16	.30
Opium (see O).			
Red (see Gum, yacca).			
Rosin (see R).			
Sandarac, cks	lb.	No stocks.	
Scammony, cs	lb.	1.50	1.53
Sterculia (see Gum, karaya).			
Talha, bgs	lb	.10	.11
Tragacanth, No. 1, cs	lb.	3.75	4.00
No. 2, cs	lb.	2.50	2.75
No. 3, cs	lb.	2.25	2.50
powdered, USP, bbls	lb.	1.75	1.85
Yacca, bgs	lb.	.06	—
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald	ton.	22.63	—
Harlem river, N. Y., frt. equald	ton.	28.25	—
Medicine Lodge, Kan., frt. equald	ton	17.00	—
New Brighton, N. Y., frt. equald	ton.	30.65	—
Southard, Okla., frt. equald.	ton.	17.00	—
Sweetwater, Tex., frt equald	ton.	21.45	—
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald	ton.	12.50	—
Blue Rapids, Kans., frt equald	ton.	10.50	—
Harlem river, N. Y., frt. equald	ton.	12.00	—
Medicine Lodge, Kan., frt. equald	ton	12.50	—
New Brighton, N. Y., frt. equald	ton.	18.00	—
Saltville, Va., frt equald	ton	9.00	—
Southard, Okla., frt. equald.	ton.	12.50	—
Sweetwater Tex., frt equald	ton.	12.50	—
Stucco, paper bgs., c.l., Akron, N. Y., frt. equald	ton.	8.00	—
Blue Rapids, Kans., frt. equald	ton	8.00	—
Clarence Center, N. Y., frt. equald	ton	8.00	—
Fort Dodge, Iowa, frt. equald	ton	8.00	—
Gypsum, Ohio, frt equald.	ton	8.00	—
Grand Rapids, Mich., frt. equald	ton	8.00	—
Harlem river, N. Y., frt. equald	ton.	8.00	—
National City, Mich., frt. equald	ton	8.00	—
New Brighton, N. Y., frt. equald	ton	8.00	—
Plasterco, Ga., frt. equald	ton.	8.00	—
Portsmouth, N. H., frt. equald	ton	8.00	—
Roton, Texas, frt. equald,	ton.	8.00	—
Saltville, Va., frt. equald	ton.	9.00	—
Southard, Okla., frt. equald.	ton.	8.00	—
Sweetwater, Texas, frt equald	ton	8.00	—
Terra alba, paper bags, c.l., Harlem River, N. Y. works	ton.	22.50	—
New Brighton, N. Y., works	ton.	21.00	—

H

Hawthorn berries, bgs	lb.	.40	.43
Heliotropin, cryst., cns	lb.	3.10	3.20
Hellebore root, dom., green, bls	lb.	.90	.93
imp., black, whole bls	lb.	.25	.30
ground, bxs	lb.	.30	.35
powder, bxs	lb.	.32	.37
white, whole, bls	lb.	.25	.30
powder, bxs	lb.	.35	.45
Helonias root, bls	lb.	1.85	2.10
Hematine extract, cryst., No. 0, bbls., l.c.l	lb.	.45½	—
No 1, obls., t.c.l	lb.	.44½	—
No 1A bbls. t.c.l	lb.	.41½	—
No. 2, obls., t.c.l	lb.	.40½	—
No. 3, obls., t.c.l	lb.	.38½	—
No. 4, obls., t.c.l	lb.	.36½	—
No 5, obls. t.c.l	lb	.34½	—
paste, No. 1, bbls., t.c.l	lb.	.19	—
No 2, obls. t.c.l	lb.	.18	—
No. 3, obls., t.c.l	lb.	.17	—
No 4 (red) obls. t.c.l.	lb.	.12½	—
Hemlock bark extract, 25% tannin, bbls., c.l., works	lb.	No stocks.	
tanks works	lb.	No stocks.	
Henbane leaves, bls	lb.	.30	.33
Henna leaves, bls	lb.	.23	.25
powd., bbls., bgs	lb.	.27	.29
Heptane (nuustrial Bayonne, N. J., tanks	gal.	.18	—
group 3, tanks	gal	12½	.13½
Hesperidine methylchalcone, bots., works	lb.	50.00	—
Hexalin (see Cyclohexanol).			
Hexamethylenetetramine, tech., bgs., c.l., Perth Amboy or N.Y.C.	lb.	.24	—
l.c.l., same basis	lb.	.26	—
bbls., c.l., same basis	lb.	.24½	—
l.c.l., same basis	lb.	.26½	—
USP, dms., 500 lbs. or more, same basis	lb.	.39½	—
smaller lots, same basis	lb.	.40½	—

Hexamine (see Hexamethylene tetramine).			
Hexane, industrial, group 3, tanks,	gal.	.148	—
Bayonne, N. J., tanks	gal.	.18	—
Hexanol, normal, dms., c.l., works	lb.	.31½	—
l.c.l., works	lb.	.32	—
tanks, works	lb.	.30	—
Hexyleneglycol, dms., c.l., dlvd.	lb.	.15¾	—
l.c.l., dlvd.	lb.	.16½	—
tanks, dlvd.	lb.	.14	—
Hexylmethacrylate, normal, dms., less than truckload, works.	lb.	.71	—
Hexylresorcinol, USP, dms., 50 lbs. up, frt. alld	lb.	17.00	—
works	lb.	16.00	-17.00
smaller lots, frt. alld	lb	18.00	—
works	lb.	18.00	-20.00
Histamine diphosphate, USP, bots	kilo.	375.00	—
Histidine hydrochloride—laevo, NF, fib dms., 50 kilo lots, works	kilo.	100.00	-120 00
1-5 kilos, works	kilo.	110 00	-130.00
Homatropine hydrobromide, USP bots.	oz.	13.75	-13.85
Hydrochloride, bots	oz.	20.00	-22.00
Methylbromide, NF, bots	oz.	13.00	-16.25
Hoof meal, 17-18% ammonia, bulk, c.l., Chicago, unit-ton.		7.25	—
Hops, NF bls	lb	40	43
Horehound herb, bls	lb.	.15	.18
Hydrangea root, bls	lb.	.22	.25
Hydrastine, bots	oz.	31.00	-37.00
Hydrochloride, NF, bots	oz.	29.50	-36.00
Sulphate, bots	oz.	35.00	-37.00
Hydrastinine 10-grain bots	bot.	1.95	—
Hydrastis (see Goldenseal).			
Hydroturamide, dms., fib, cans., works	lb.	.30	.40

Hydrogen chloride, anhyd., 80-lb. cyl., works	lb.	.88	.89
Peroxide, USP, bbls	lb.	.03¾	.03
35%, cbys., same basis	lb.	.24½	.25½
dms., c.l., same basis	lb.	.21½	—
l.c.l., same basis	lb.	.22	.26½
tanks	lb.	.20¾	—
Hydrogen peroxide prices on W. Coast, 2c. per lb. higher.			
Hydroquinone, photographic, bbls., dms	lb.	.90	—
tech. dms	lb.	.70	—
Hydroxycitronellal, cns	lb.	8.50	- 8.60
Hyoscine salts (see Scopolamine).			
Hyoscyamine, bots	oz.	15.75	-16.00
Hydrobromide, bots	lb.	16.50	-16.00
Sulphate, bots	oz.	12.50	-13.00
Hypernic extract, cryst., No. 1, bbls., l.c.l	lb.	.56	—
No. 2, bbls., l.c.l	lb.	.48	—
liquid, No. 1, bbls., l.c.l	lb.	.30	—
No 2, bbls., l.c.l	lb.	.23	—
solid, No 1, bxs., l.c.l	lb	44	—
Hyssop herb, bgs	lb.	.40	- .45
Leaves, bgs	lb.	.55	- .60

I

Iceland moss, bgs	lb.	.35	- .40
Ichthammol, NF, dms	lb.	.60	- .75
Indian red (see Red, Indian).			
Indigo, nat., chests	lb	2.14	2.18
synth., paste, bots	lb	.23	—
powd, bbls	lb	1.03	—
Indol, CP, bots	lb.	17.50	-21.00
Inositol, dms., dlvd	lb	4.90	—
tins, dlvd	lb.	5.00	—
Insect flowers (see Pyrethrum).			

Iodine, crude, bgs	lb.	1.70	—
resubl., USP, bots., jars	lb.	2.55	2.78
Iodochlorohydroxyquinolin NF dms	lb	6.50	—
Idoform, NF, dms., kgs	lb	4.70	4.85
Ionone, alpha, cns	lb.	5.55	-15.40
Beta, cns	lb.	7.00	- 9.35
Ipecac root, bgs	lb.	5.25	- 6.00
powd., bgs	lb.	5.50	- 6.25
Irish moss, bleached, prime, bls	lb.	.26	- .28
Iron acetate, liquor 28 obls., c.l., works	lb	09	—
l.c.l., works	lb	09¾	—
solut., USP IX, cbys	lb	16	—
djns	lb	17	—
Cacodylate NF bots	lb	13.50	-14.50
Chloride (ferric), anhydr., tech., dms., c.l. works	100 lbs	5.75	—
l.c.l., works	100 lbs	6.50	7.50
cryst., tech. c.l., bbls., works	100 lbs.	5.25	- 6.25
l.c.l., bbls., works	100 lbs.	5.75	- 8.25
USP, dms., works	lb.	.07½	- .09
solut., 42° Be. 100% basis, tanks, works	100 lbs	3.45	—
Citrate, gran., dms	lb.	77	- .80
Gluconate, NF dms	lb	83	.95
Glycerophosphate, N.F., powd	lb.	4.45	4.55
Hypophosphite, NF, dms	lb	2.80	—
Iodide, bgs	lb	3.66	3.73
Naphthenate, liq., 6% Fe, dms. frt. alld	lb.	.23½	—
Oxalate, gran., dms	lb.	.83	- .85
Phosphate, soluble, NF, gran., cs	lb.	.64	- .69
Pyrophosphate, soluble, NF VII, gran., dms	lb.	.78	- .91
Reduced (see Iron by hydrogen)			
Resinate, 7.4% Fe, dms, frt. alld.	lb.	.24¼	—

Gum, Copal, Philippine—Iron Resinate

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Formaldehyde, methanol-free (uninhibited), tanks, works..lb. .0425- —
tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna., and part of Delaware in states other than Eastern Seaboard, as well as W. of Rockies, priceg f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.
Fleaseed (see Psyllium seed).
Fringetree bark, bls.....lb. .52 - .62
Fuller's earth dom. powd., bgs., c.l.,
Fla. Ga. mines ton.30.00 - —
Tex. mines ton.27.00 - —
spent, bulk, Bayonne ton 2.00 4.00
imported, bgs., c.l. ton.30.00 -40.00
Furfural, tech., dms., c.l., works lb. .12 - —
l.c.l. works lb. .14 - —
tanks, works lb. 09½- —
Fusel oil, refined, dms., c.l., dlvd.lb. .28¾- .29¾
l.c.l. dlvd. .....lb. .29¾- .30¾
tanks, dlvd. .....lb. .27 - .28
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .42½- —
No. 1A, bbls., l.c.l.....lb. .41½- —
No. 2, bbls., l.c.l.....lb. .40½- —
No. 3, bbls., l.c.l.....lb. .38½- —
liquid, No. 0, bbls., l.c.l.....lb. .22 - —
No. 1, bbls., l.c.l.....lb. .20½- —
No. 2, bbls., l.c.l.....lb. .19½- —
No. 3, bbls., l.c.l.....lb. .17 - —
solid, No. 1, bxs., l.c.l.....lb. .39 - .40

G

G salt, bbls., frt. alld.....lb. .66 - .73
Galangal root, bls.....lb. .18 - .25
Gambier, plantation, bgs., ex dock.lb No stocks.
Extract, bbls..... No stocks.
Gammapicoline, 85%, dms., c.l., works..lb. 1.60 - 1.68
Gasoline, at refinery, ex tax, Arkansas, 80 octane, tanks, gal. .1078- —
N. Y. Harbor, 83 octane, tanks, gal. .1285- .136
Gulf coast, 82 octane, tanks, gal. .105 - .11
Group 3, 82 octane, tanks, gal. .10375- .1075
Pennsylvania, western, U. S. motor, 83 octane, tanks, gal. .1278- .13
natural, 26-70 octane, group 3, tanks..gal. .06375- —
Gelatin, silver, unsel, imported, ex lb. 1.15 - —
Geisemium root, bls.....lb. .30 - .32
Gentian root, bls.....lb. .16 - .18
grd., bbls., bxs.....lb. .20 - .22
powd., bbls., bxs.....lb. .21 - .23
Geraniol, extra, cns., dms.....lb. 2.60 - 3.20
prime, cns., dms.....lb. 2.20 - 2.40
Geranyl acetate, cns.....lb. 2.60 - 3.00
Ginger, oleoresin, NF, from African root, bots lb. 7.75 - 9.50
from Jamaican root, bots..lb.10.50 -14.00
Root, African, bls.....lb. .41 - .43
Cochin, bleached, bgs., futures, lb. No stocks.
unbleached, bgs.....lb. .50 - .51
Jamaica, No. 1, bgs.....lb. .63 - .64
No. 2, bgs.....lb. .62 - .63
No. 3, bgs.....lb. .60 - .61
January-March shipment, lb. .48 - .49
Rhattoon, bgs.....lb. .50 Nom.
Nigerian, split, bgs.....lb. .36 Nom.
Ginseng root cs.....lb.13.00 -16.00
Glauber's salt, annyd. (see Sodium sulphate).
cryst., bgs., c.l., works, frt. alld. ton.45.00 - —
l.c.l., works..... ton.50.00 - —
Glue, bone, calcium type 24 millipoise, 40 jellygrams, bgs., c.l., East of Midwest . lb. .20½- —
65 jellygrams, bgs., c.l., same basis lb. .22½- —
80 jellygrams, bgs. c.l., same basis lb. .24 - —
110 jellygrams, bgs., c.l., same basis lb. .25 - —
130 jellygrams, bgs., c.l., same basis lb. .26 - —
Over 150 jellygrams, bgs., c.l., same basis lb. .27 - —
Bone glue, l.c.l., 1c. per lb. higher than c.l.
ground, 65 jellygrams, bgs., c.l., (50,000 lbs.), dlvd. lb. .22½- —
l.c.l., same basis.... lb. .23½- —
Hide, 100-121 (jellygrams), bgs., c.l., dlvd lb. .26 - .28
122-149, bgs., c.l., dlvd .... lb. .27 - .30
150-177, bgs., c.l., dlvd .... lb. .28 - .31
178-206, bgs, c.l., dlvd .... lb. .29 - .33
207-236, bgs., c.l., dlvd .... lb. .30 - .34
237-266, bgs., c.l., dlvd .... lb. .31 - .35
267-296, bgs., c.l., dlvd .... lb. .32 - .36
299-330, bgs., c.l., dlvd .... lb. .33 - .37
331-362, bgs., c.l., dlvd .... lb. .34 - .37
363-394, bgs., c.l., dlvd .... lb. .35 - .38
395-427, bgs., c.l., dlvd.....lb. .36 - .39
428-460, bgs., c.l., dlvd .... lb. .37 - .40¼
461-494, bgs., c.l., dlvd.....lb. .38 - .42
495-529, bgs., c.l., dlvd.....lb. .39 - .43
Hide glue, l.c.l., prices 1c. higher than c.l. bbls. ½c. more than bgs.
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd..lb. .50 - .55
soaplye, 80%, tanks, dlvd....lb. .45 - .53
dynamite, dms., c.l., dlvd.....lb. .49 - .56
l.c.l., dlvd. .....lb. .49½- .56½
tanks, dlvd. .....lb. .48½- .57½
high gravity, dms., c.l., dlvd..lb. .49¼- .56
l.c.l., dlvd. .....lb. .49¾- .58½
tanks, dlvd. .....lb. .48¾- .57½
refined, BP, 96%, dms., c.l., dlvd. lb. .50½- .60
l.c.l., dlvd. .....lb. .51 - .60½
tanks, dlvd. .....lb. .50 - .59½
USP, c.p., 95%, dms., c.l., dlvd. lb. .49¾- .58½
l.c.l., dlvd. .....lb. .50¼- .59
tanks, dlvd. .....lb. .49¼- .58
yellow, distilled, dms., c.l., dlvd.lb. .49½- .54½
l.c.l., dlvd. .....lb. .49⅝- .58⅝
tanks, dlvd. .....lb. .48⅜- .57⅜
Glycine USP (see Acid, aminoacetic).
Glyoxal, 30%, dms., c.l., works lb. .18½- —
l.c.l., works.....lb. .19 - —
tanks, works .....lb. .18 - —
Gold chloride, acid-brown, bots oz.22.50 -23.00
acid-yellow, bots .....oz.20.50 - —
Gold of pleasure seed bgs., futures lb. .13 - .13¼
Goldenseal root, bls.....lb. 3.75 - 4.25
powd., bxs. .....lb. 4.25 - 4.75
Gold-sodium chloride, photo, bots. oz.13.00 -14.00
USP IX, bots ..... oz.14.50 -15.50
Grains of paradise, bgs.....lb. .42 - .45
Graphite, imported, amorph., powd., bgs., dlvd lb. No prices.
crystalline, 83-90%, powd., bgs., ex whse lb. No prices.
90-92%, powd., bgs., ex whse. lb. No prices.
97%, powd., bgs., ex whse lb. No prices.
flake, No. 1, 90-95%, bgs., ctns., ex whse lb. No prices.
No. 2, bgs, whse.....lb. No prices.
Grease, house, loose, dlvd.....lb. .13¾ Nom.
White, choice, loose .....lb. .15½ Nom.
Wool (see Degras and Lanolin).
Yellow, loose .....lb. .14¼ Nom.
Green, brilliant, thioflavin, toner, molybdic, kgs., works lb. 4.25 - 4.50
Tungstic, kgs., works lb. 4.25 - 4.50
16-20% bbls. same basis lb. .38½- —
Chrome, CP, dark, light, medium, blue content up to 5%, bbls., dlvd. N. of Tenn. and N. C. E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. .34 - .38
6-10%, bbls., same basis lb. .35 - .36
11-15%, bbls., same basis lb. .36 - .37
16-20%, bbls., same basis lb. .36½- .37½
21-25%, bbls., same basis lb. .37½- .38½
26-30%, bbls., same basis lb. .37¾- .38¾
31-35%, bbls., same basis lb. .38¾- .39¾
36-40%, bbls., same basis lb. .40½- .41½
41-45%, bbls., same basis lb. .42 - .43
46-50%, bbls., same basis lb. .24½- .25¼
50% and over, bbls., same basis lb. .45¾- .46¾
reduced color, 5%, bbls., same basis lb. .12½- —
6-10%, bbls., same basis lb. .13¼- —
11-13%, bbls., same basis lb. .13¾- —
14-16%, bbls., same basis lb. .14½- —
17-19% bbls., same basis lb. .14¾- —
20-21%, bbls., same basis lb. .15 - —
22-23%, bbls., same basis lb. .15¼- —
24-25%, bbls., same basis lb. .15¼- —
26-27%, bbls., same basis lb. .15¾- —
28-29%, bbls., same basis lb. .16¼- —
30-31%, bbls., same basis lb. .17¼- —
32-33%, bbls., same basis lb. .18½- —
34-35%, bbls., same basis lb. .19½- —
36-40%, bbls., same basis lb. .41¾- —
41-45%, bbls., same basis lb. .24½- —
46-50%, bbls., same basis lb. .26 - —
51-55%, bbls., same basis lb. .25¾- —
56-60%, bbls., same basis lb. .26¼- —
61-65%, bbls., same basis lb. .27¼- —
66-70%, bbls., same basis lb. .28½- —
Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1½c.); Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Chromium oxide, hydrated, l.c.l., bbls., dms., frt. alld. lb. .95 - 1.05
pure, c.l., bgs., frt. alld.....lb. .37½- .44
Dyes (see Dyes, coaltar).
Malachite thioflavin toner, molybdic, bbls., works lb 3.00 - —
Tungstic, bbls. works lb 3.40 - —
Paris (see P).
Phthalocyanin toner, bbls., works, lb 4.40 - 5.00
Tungstated, brilliant, kgs.....lb. 3.00 - 4.00
Emerald, kgs lb 2.60 - —
Grindelia robusta herb, bls.....lb. .24 - .30
Guaiac resin, NF, cs.....lb. .60 - .65
ordinary, cs.....lb. .49 - .51
Wood, bls .....lb. .35 - .36
Guaiacol, cryst., tins.....lb. 1.90 - —
Liquid, NF, bots., cbys.....lb. 2.15 - 2.20
Carbonate, dms. .....lb. 3.15 - 3.20
Guarana, powd., cs.....lb. 1.50 - 1.75
Gum, accroides (see Gum, yacca).
Aloe (see A.).
Ammoniac, tears, cs .....lb .80 - .85
Arabic, amber, sorts, bgs.....lb. .14½- .15
powdered, USP, bbls.....lb. .19 - .21
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs.....lb. .50 - .70
Camphor (see C).
Copal, Congo No. 1, bgs.....lb. .25 - .26
No. 2, bgs.....lb. .20 - .22
No. 3, bgs.....lb. .17½- .19¼
Manila, coba, B, bgs.....lb No prices.
C, bgs .....lb. .28 - .30
CBB, bgs.....lb. .26 - .27
CNE, bgs. .....lb No prices.
DBB, bgs.....lb. .25 - .28
DK, bgs .....lb. .18 - .24
dust, bgs .....lb. .07½- .09
soft, MA, bgs.....lb. .19 - .21
WS, bgs. .....lb. No prices.

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DDT Government Specifications
2,4-D Acid, Salt and Isopropyl Ester
TRICRESYL PHOSPHATE
ERGOSTEROL
(Non Irradiated)

MONTROSE CHEMICAL COMPANY
LISTER AVENUE, NEWARK, NEW JERSEY
SELLING AGENTS R. W. GREEFF & CO., INC. 10 ROCKEFELLER PLAZA, NEW YORK, N.Y. TRIBUNE TOWER, CHICAGO, ILLINOIS

Gum, copal, Philippine, pale, chips, bgs	lb.	.22	.24
nubs, bgs	lb.	.20	.22
seeds, bgs	lb.	.19	.21
sorts, bgs	lb.	.20	.22
Pontianak, chips, bgs	lb.	.19	.22
nubs, bgs	lb.	.30	.32
Dammar, Batavia, A/E, bgs	lb.	.23	.25
dust, bgs	lb.	.08	.10
E, bgs	lb.	.12½	.14½
East India, batu, bold, bgs	lb.	.13½	.14½
nubs and chips, bgs	lb.	.07½	.10
bald, bold, bgs	lb.	.13½	.14½
unscraped, bgs	lb.	.11	.12
nubs and chips, bgs	lb.	.10	.11
pale, chips, bgs	lb.	.14	.16
nubs, bgs	lb.	.23	.26
Singapore, No. 1, bgs	lb.	.34	.36
No. 2, bgs	lb.	.23	.33
No. 3, bgs	lb.	.09½	.11
dust, bgs	lb.	.09½	.11
seeds, bgs	lb.	.12½	.13½
Elemi, cns	lb.	.23	.24
Ester, gum-rosin type, dms., c.l., dlvd, Ill., Ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va	lb.	.12	.12½
wood-rosin type, dms., c.l., dlvd, Ill., Ind., etc	lb.	.12	.12½
Euphorbium, cs	lb.	.35	.40
Galbanum cs	lb.	.75	.80
Gamboge, pipe, cs	lb.	1.00	1.05
powd., bbls	lb.	1.15	1.20
Ghatti, No. 2, bgs	lb.	.35	.37
No. 3, bgs	lb	.31	.33
Guaiac (see Guaiac resin).			
Karaya, powd., No. 1, bbls	lb.	.55	.65
No. 2, bbls	lb.	.45	.50
No. 3, bbls	lb.	.39	.45
Kauri, bgs	lb.	.31½	.32½
Locust bean, powd., bgs	lb.	.44	.50
Mastic, cs	lb	2.25	2.50
Myrrh, cs	lb.	.30	.35
Olibanum, siftings, cs	lb.	.12	.13
tears, cs	lb.	.16	.20
Opium (see O).			
Red (see Gum, yacca).			
Rosin (see R).			
Sandarac, cks	lb.	No stocks.	
Scammony, cs	lb.	1.50	1.55
Sterculia (see Gum, karaya).			
Talha, bgs	lb	.10	.11
Tragacanth, No. 1, cs	lb.	3.75	4.00
No. 2, cs	lb.	2.50	2.75
No. 3, cs	lb.	2.25	2.50
powdered, USP, bbls	lb.	1.75	1.85
Yacca, bgs	lb.	.06	—
Gypsum, Keane's cement, paper bgs., c.l., Acme, Tex., frt. equald	ton.	22.63	—
Harlem river, N. Y., frt. equald	ton.	28.25	—
Medicine Lodge, Kan., frt. equald	ton.	17.00	—
New Brighton, N. Y., frt. equald	ton.	30.65	—
Southard, Okla., frt. equald	ton.	17.00	—
Sweetwater, Tex., frt equald	ton.	21.45	—
Plaster of paris, paper bgs., c.l., Acme, Texas, frt. equald	ton.	12.50	—
Blue Rapids, Kans., frt equald	ton.	10.50	—
Harlem river, N. Y., frt. equald	ton.	12.00	—
Medicine Lodge, Kan., frt. equald	ton.	12.50	—
New Brighton, N. Y., frt. equald	ton.	18.00	—
Saltville, Va., frt equald	ton	9.00	—
Southard, Okla., frt. equald	ton.	12.50	—
Sweetwater Tex., frt. equald	ton.	12.50	—
Stucco, paper bgs., c.l., Akron, N. Y., frt. equald	ton.	8.00	—
Blue Rapids, Kans., frt. equald	ton	8.00	—
Clarence Center, N. Y., frt. equald	ton.	8.00	—
Fort Dodge, Iowa, frt. equald	ton.	8.00	—
Gypsum, Ohio, frt equald	ton	8.00	—
Grand Rapids, Mich., frt. equald	ton.	8.00	—
Harlem river, N. Y., frt. equald	ton.	8.00	—
National City, Mich., frt. equald	ton	8.00	—
New Brighton, N. Y., frt. equald	ton	8.00	—
Plasterco, Ga., frt. equald	ton	8.00	—
Portsmouth, N. H., frt. equald	ton	8.00	—
Roton, Texas, frt. equald.	ton.	8.00	—
Saltville, Va., frt. equald	ton.	9.00	—
Southard, Okla., frt. equald.	ton.	8.00	—
Sweetwater, Texas, frt equald	ton	8.00	—
Terra alba, paper bags, c.l., Harlem River, N. Y. works	ton.	22.50	—
New Brighton, N. Y., works	ton.	21.00	—

H

Hawthorn berries, bgs	lb.	.40	.45
Heliotropin, cryst., cns	lb.	3.10	3.20
Hellebore root, dom., green, bls	lb.	.90	.93
imp., black, whole bls	lb.	.25	.30
ground, bxs	lb.	.30	.33
powder, bxs	lb.	.32	.37
white, whole, bls	lb.	.25	.30
powder, bxs	lb.	.35	.45
Helonias root, bls	lb.	1.85	2.10
Hematine extract, cryst., No. 0, bbls., l.c.l	lb.	.45½	—
No 1, obls., l.c.l	lb.	.44½	—
No 1A bbls., l.c.l	lb.	.41½	—
No. 2, obls., l.c.l	lb.	.40½	—
No. 3, obls., l.c.l	lb.	.38½	—
No. 4, obls., l.c.l	lb.	.36½	—
No 5, bbls, l.c.l	lb	.34½	—
paste, No. 1, bbls., l.c.l	lb.	.19	—
No 2, bbls, l.c.l	lb.	.18	—
No. 3, obls., l.c.l	lb.	.17	—
No 4 (red) bbls, l.c.l.	lb.	.12½	—
Hemlock bark extract, 25% tannin, bbls., c.l., works	lb.	No stocks.	
tanks works	lb.	No stocks.	
Henbane leaves, bls	lb.	.30	.33
Henna leaves, bls	lb.	.23	.25
powd., bbls., bgs	lb.	.27	.29
Heptane (industrial Bayonne, N. J., tanks	gal.	.18	—
group 3, tanks	gal	12½	.13½
Hesperidine methylchalcone, bots., works	lb.	50.00	—
Hexalin (see Cyclohexanol)			
Hexamethylenetetramine, tech., bgs., c.l., Perth Amboy or N.Y.C.	lb.	.24	—
l.c.l., same basis	lb.	.26	—
bbls., c.l., same basis	lb.	.24½	—
l.c.l., same basis	lb.	.26½	—
USP, dms., 500 lbs. or more, same basis	lb.	.39½	—
smaller lots, same basis	lb.	.40½	—
Hexamine (see Hexamethylene tetramine).			
Hexane, industrial, group 3, tanks,	gal.	.148	—
Bayonne, N. J., tanks	gal.	.18	—
Hexanol, normal, dms., c.l., works	lb.	.31½	—
l.c.l., works	lb.	.32	—
tanks, works	lb.	.30	—
Hexyleneglycol, dms., c.l., dlvd	lb.	.15¾	—
l.c.l., dlvd	lb.	.16½	—
tanks, dlvd	lb.	.14	—
Hexylmethacrylate, normal, dms., less than truckload, works	lb.	.71	—
Hexylresorcinol, USP, dms., 50 lbs. up, frt. alld	lb.	17.00	—
works	lb.	16.00	17.00
smaller lots, frt. alld	lb	18.00	—
works	lb.	18.00	20.00
Histamine diphosphate, USP, bots	kilo.	375.00	—
Histidine hydrochloride—laevo, NF, 5lb dms., 50 kilo lots, works	kilo.	100.00	120.00
1-5 kilos, works	kilo.	110.00	130.00
Homatropine hydrobromide, USP bots	oz.	13.75	13.85
Hydrochloride, bots	oz.	20.00	22.00
Methylbromide, NF, bots	oz.	13.00	16.25
Hoof meal, 17-18% ammonia, bulk, c.l., Chicago	unit-ton.	7.25	—
Hops, NF bls	lb	.40	.45
Horehound herb, bls	lb.	.15	.18
Hydrangea root, bls	lb.	.22	.25
Hydrastine, bots	oz.	31.00	37.00
Hydrochloride, NF, bots	oz.	29.50	36.00
Sulphate, bots	oz.	35.00	37.00
Hydrastinine 10-grain bots	bot.	1.95	—
Hydrastis (see Goldenseal).			
Hydrofuramide, dms, 5lb. cans., works	lb.	.30	.40
Hydrogen chloride, anhyd., 50-lb. cyl., works	lb.	.95	.99
Peroxide, USP, bbls	lb.	.03¾	.05
35%, cbys., same basis	lb.	.24½	.25½
dms., c.l., same basis	lb.	.21½	—
l.c.l., same basis	lb.	.22	.26½
tanks	lb.	.20¾	—
Hydrogen peroxide prices on W. Coast, 2c. per lb. higher.			
Hydroquinone, photographic, bbls., dms	lb.	.90	—
tech. dms	lb.	.70	—
Hydroxycitronellal, cns	lb.	8.50	8.60
Hyoscine salts (see Scopolamine).			
Hyoscyamine, bots	oz.	15.75	16.00
Hydrobromide, bots	lb.	16.50	16.00
Sulphate, bots	oz.	12.50	13.00
Hypernic extract, cryst., No. 1, bbls., l.c.l	lb.	.56	—
No. 2, bbls., l.c.l	lb.	.48	—
liquid, No. 1, bbls., l.c.l	lb.	.30	—
No. 2, bbls., l.c.l	lb.	.25	—
solid, No. 1, bxs., l.c.l	lb	.44	—
Hyssop herb, bgs	lb.	.40	.45
Leaves, bgs	lb.	.55	.60

I

Iceland moss, bgs	lb.	.35	.40
Ichthammol, NF, dms	lb.	.60	.75
Indian red (see Red, Indian).			
Indigo, nat., chests	lb	2.14	2.18
synth., paste, bots	lb	.23	—
powd., bbls	lb	1.03	—
Indol, CP, bots	lb.	17.50	21.00
Inositol, dms., dlvd	lb.	4.90	—
tins, dlvd	lb.	5.00	—
Insect flowers (see Pyrethrum).			
Iodine, crude, kgs	lb.	1.70	—
resubl., USP, bots., jars	lb.	2.55	2.70
Iodochlorohydroxyquinolin NF dms	lb.	6.50	—
Idoform, NF, dms., kgs	lb	4.70	4.85
Ionone, alpha, cns	lb.	5.55	15.40
Beta, cns	lb.	7.00	9.35
Ipecac root, bgs	lb.	5.25	6.00
powd., bgs	lb.	5.50	6.25
Irish moss, bleached, prime, bls	lb.	.26	.28
Iron acetate, liquor, 28 obls., c.l., works	lb	09	—
l.c.l., works	lb	09¾	—
solut., USP IX, cbys	lb	16	—
djns	lb.	17	—
Cacodylate NF bots	lb	13.50	14.50
Chloride (ferric), anhydr., tech., dms., c.l. works	100 lbs	5.75	—
l.c.l., works	100 lbs	6.50	7.50
cryst., tech. c.l., bbls., works	100 lbs.	5.25	6.25
l.c.l., bbls., works	100 lbs.	5.75	8.25
USP, dms., works	lb.	.07½	.09
solut., 42° Be. 100% basis, tanks, works	100 lbs	3.45	—
Citrate, gran, dms	lb.	.77	.80
Gluconate, NF dms	lb	.83	.93
Glycerophosphate, N.F., powd	lb.	4.45	4.55
Hypophosphite, NF, dms	lb	2.80	—
Iodide, bgs	lb.	3.66	3.73
Naphthenate, liq., 6% Fe, dms., frt. alld	lb.	.23¼	—
Oxalate, gran., dms	lb.	.83	.85
Phosphate, soluble, NF, gran., cs	lb.	.64	.68
Pyrophosphate, soluble, NF VII, gran., dms	lb.	.78	.91
Reduced (see Iron by hydrogen)			
Resinate, 7.4% Fe, dms, frt. alld.	lb.	.24¼	—

Gum, Copal, Philippine—Iron Resinate

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Iron stearate, dms., c.l. lb. .44 - —
ton lots lb. .45 - —
less ton lots lb. .46 - —
Sulphate, partially hydrated, bgs., c.l., works ton.30.00 - —
l.c.l., works ton.31.00 - —
ferrous, tech (see Copperas)
USP, cryst, bbls, dms lb .09½- .10
Iron by hydrogen kgs lb .80 - .88
Iron-ammonium citrate, green, NF, gran., dms lb .55 - .58
brown, USP gran., dms lb .55 - .58
Oxalate, dms lb 25½ - 28½
Iron-potassium oxalate fine gran., dms lb. .30½- .33½
Iron-sodium oxalate, fine gran., dms lb 25½ - 28½
Isoborneol, cns. lb. 1.45 - 1.70
Isobornyl acetate, cns lb 77 .97
Isobutyl acetate, cns lb 72 1.25
Methacrylate, dms., works lb .60 —
Propionate cns lb No prices.
Isobutyraldehyde dms., works lb .50 .53
Isoeugenol, cns. lb. 3.80 - 4.25
Isopentane dms, works lb 45 55
Isophorone, dms., c.l., works lb. .24¼- —
l.c.l., works lb. .24¾- —
tanks, works lb. .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate dms., c.l., frt. alld lb. .13¼- .13¾
l.c.l., same basis lb. .14¼- .14¾
tanks, same basis lb. .11½- .12
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene)
Ether (see Ether, isopropyl).
Isopropylamine (see Monoisopropylamine).
Isoquinoline, dms., c.l., works lb. .20 - —
l.c.l., works lb. .40 - —

J

Jaborandi leaves, bls lb. .18 - .20
Jalap root, NF, bls lb. .43 - .45
powd., bbls., bxs lb. .48 - .50
Juniper berries, bgs. lb. .16 - .18
Tar, NF, dms. lb. .37 - .60

K

Kamala, powd., cns. lb. .80 - .90
Kaolin (see China clay)
Kava kava root, bls lb. .28 - .30
Kerosene, at refinery, Ark., 42-44 specific gravity, w.w. tanks, gal. .09 - —
N. Y. Harbor, 44-43 s.g. w.w. tanks gal. .101 - .102
California, 40-43 s.g., w.w., tanks gal. .126 - .13
Gulf ports, 41-43 s.g., w.w., tanks gal. .0875- .0925
Okla.-Tex., 41-43 s.g., w.w., tanks gal. .08875- .0925
Penn., Western, 45 s.g., w.w., tanks gal. .105 - .11
Kola nuts, bgs. lb. .09 - .10
Kyanite, imp. low iron content, 10-mesh whse ton.85.00 -95.00
calcined, grain, 10-mesh, whse ton.95.00 -105.00

L

Lady slipper root, bls. lb. 1.50 - 1.55
Lanolin, anhyd., cosmetic, dms., works lb. .32 - .34
pharmaceutical, USP, dms., works lb. .28 - .31
hydrous lb. .27 - .29
Lard, cash, trcs., Chicago lb. .15⅞ Nom.
Larkspur seed, bgs. lb .20 - .25
Laurel berries, bls. lb. .25 - .26
Leaves, Greek, bls. lb. .08 - .08½
Portuguese, bls. lb. .10 - .11
Turkish, bls. lb. .11½- .12
Yugoslavian, bls. lb. .08½- .09
Lauryl chloride, dms., works, frt. equald lb. .75 - —
Methacrylate, normal, dms., less than truckload, works lb. 1.00 - —
Lavender flowers, medium, bls lb .55 - .60
ordinary, bls. lb. .20 - .25
select, bls lb .60 - .65
Lead acetate, white, crystals, bbls., lb. .22 - —
gran., bbls. lb. .23 - —
powd., bbls. lb. .23 - —
USP, cryst., dms lb. .26 - —
gran., powd., dms lb. .27 - —
Arsenate, dealers, basic powder, 3-lb. bgs., or larger, c.l., frt. alld. on 96 lbs. or over lb. .28¾- —
l.c.l., frt. alld lb. .29¾- —
1-lb. bgs., c.l. lb. .42 - —
l.c.l. lb. .43 - —
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld lb. .17¾- —
l.c.l., works lb. .18¾- —
Carbonate (see Lead, white).
Chloride, dms. lb. .39 - —
Iodide, NF V. tars lb 3.30 - —
Linoleate, precip., 26.15%, dms., lb. .34 - —
Lead, metal, pigs, prime, N. Y. lb. .17 - —
St. Louis lb. .1680- —
Metallic paste, dms., 20,000-40,000 lbs., works lb. .33½- —
10,000-20,000 lbs., same basis, lb. .34 - —
2,000-10,000 lbs., same basis lb. .34½- —
200 to 2,000 lbs., same basis lb. .35 - —
Prices ex whse., Jersey City, N. J., 4½c. per pound higher.
Naphthenate, liquid, 18% Pb, dms., dlvd. lb. .16¾- —
24% Pb, dms., dlvd. lb. .22¾- —
37% Pb, dms., dlvd. lb. .29¾- —
Nitrate, bbls., c.l. lb. .22 - —
l.c.l. lb. .22¼- —
Oleate, tused, bbls lb. .24 - —
Orthosilicate gel, 50% PbO, dms., works lb. .31¾- —
60% PbO, dms., works lb. .30¼- —
Peroxide, powd., tech., bbls. lb. .41 - .43
Phthalate, dibasic, dms, works, lb. .40½- —
Red, 95% Pb_3O_4, or less, bbls., c.l., ship't point, frt. alld. lb. .19¾- —
l.c.l., same basis lb. .20¾- —
97% Pb_3O_4, bbls., c.l., same basis lb. .20 - —
l.c.l., same basis lb. .21 - —
96% Pb_3O_4, bbls., c.l., same basis lb. .20¼- —
l.c.l., same basis lb. .21¼- —
Resinate, precip., dms., dlvd lb. .27 - —
Salicylate, normal, dms., works lb. .43½- —
Silicate, bgs., l.c.l., ship't pt., frt. alld lb. .1805- .1875
Stearate, dibasic, dms., works lb. .53 - .56
precip., bbls., c.l. lb. .46 - —
ton lots lb. .47 - —
less ton lots lb. .48 - —
Sulphate (see Lead, blue; Lead, white, basic sulphate)
tribasic, dms., works lb. .27½- —
Tallate, liquid, 16% Pb, dms. lb. .13½- .14¼
24% Pb, dms lb. .17¾- .19
White, basic carbonate, bgs., c.l., ship't point, frt. alld lb. .18½- —
l.c.l., same basis lb. .19½- —
basic silicate, bgs., c.l., ship't point, frt. alld lb. .16¼- .21¼
l.c.l., same basis lb. .17¼- .22¼
basic sulphate, bgs., c.l., ship't point, frt. alld lb. .17¾- —
l.c.l., same basis lb. .18¾- —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works lb. .18 - —
l.c.l., same basis lb. .19 - —
unbleached, c.l., same basis lb. .17 - —
l.c.l., same basis lb. .18 - —
Lemon peel, bls lb. .18 - .20
Leucine dextro-laevo, dms., works lb.12.25 -15.00
Licorice extract, mass, cns. lb. .40 - .45
powd., bbls lb. .55 - —
Root, bls lb. .08 - .09
5-lb. bundles, cs lb. .40 - .45
powd., bbls lb. .11 - .12
Lignin extract, tanning grade, bgs., c.l., works lb. .05¼- .06¼
Lime, agricultural, bgs., works ton.13.00 -13.50
Chemical (quicklime), lump, pebble, bulk, Adams, Mass ton.10.00 - —
Annville, Pa ton.11.00 - —
Bellefonte, Pa ton.11.00 - —
Buffalo, N. Y ton.10.50 - —
Carey, Ohio ton. 7.00 - —
Cedar Hollow, Pa ton.10.50 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton. 8.50 - —
Hannibal, Mo ton. 9.25 - —
Keystone, Ala ton.10.25 - —
Knoxville, Tenn ton.10.25 - —
Limedale, Ark ton.10.15 - —
Longview, Ark ton.10.25 - —
Martinsburg, W. Va ton.10.40 - —
Menominee, Mich ton. 8.00 - —
Mitchell, Ind ton. 7.50 - —
Rockland, Maine ton. 9.00 - —
Scioto, Ohio ton. 7.50 - —
Woodville, Ohio ton.10.50 - —
York, Pa ton.11.00 - —
Hydrated, paper bgs., Adams, Mass. ton.14.00 - —
Annville, Pa. ton.14.00 - —
Bellefonte, Pa. ton.14.00 - —
Buffalo, N. Y. ton.14.00 - —
Cedar Hollow, Pa ton.12.50 - —
Engle, W. Va ton.13.90 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton. 9.50 - —
Hannibal, Mo ton.12.50 - —
Keystone, Ala ton.13.50 - —
Knoxville, Tenn ton.12.65 - —
Limedale, Ark ton.11.50 - —
Longview, Ala ton.13.50 - —
Manistique, Mich ton 9.50 - —
Marblehead, Ohio ton.10.50 - —
Mitchell, Ind ton.10.00 - —
Petoskey, Mich ton 10.00 - —
Port Island, Mich ton 9.00 - —
Rapid City, S. Dak. ton 12.00 - —
Rockland, Maine ton.11.50 - —
Scioto, Ohio ton 9.00 - —
Sherwood, Wis. ton 10.00 - —
Springfield, Mo ton 9.00 - —
Woodville, Ohio ton.15.00 - —
York, Pa ton.14.00 - —
Spray, paper bgs., Adams, Mass. ton.11.70 - —
Annville, Pa ton.14.00 - —
Bellefonte, Pa ton.14.00 - —
Carey, Ohio ton 11.00 - —
Engle, W. Va ton.13.90 - —
Farnams, Mass. ton.14.00 - —
Gibsonburg, Ohio ton 10.00 - —
Marblehead, Ohio ton 10.00 - —
Rockland, Me ton.10.00 - —
Scioto, Ohio ton 10.00 - —
Woodville, Ohio ton.15.00 - —
York, Pa ton.14.00 - —
Lime salts (see Calcium)
Lime-ammonia-nitrogen, 20.5% N (see Ammonium nitrate-limestone)
Limestone grd, bgs, works ton 3.50 - 4.00
Linalool, ex bois de rose, dms. lb. 5.80 - 6.15
ex lignaloe wood, dms. lb. 6.50 - 7.10
Linalyl acetate, 90-92%, dms. lb. 6.00 - 6.15
96-98%, dms lb. 6.95 - 7.25
ex petitgrain, bots lb. 4.25 - 6.00
Lindane, 25% formulation, cns., works lb. 2.70 - —
dms., works lb. 2.60 - —
Linden flowers with leaves, bls lb. .25 - .30
without leaves, bls. lb. .25 - .35
Linseed meal, expeller, 34% bulk Midwest mills ton.58.50 -59.50
extracted, 36%, same basis ton.57.50 -58.50
Litharge, com'l, powd. bbls., c.l., ship't point, frt. alld lb. .18¾- —
l.c.l., same basis lb. .19¾- —
Lithium benzoate, dms lb 1.67 - —
Bromide, NF, bbls., works, frt equald lb. 2.10 - 2.35
Carbonate, NF, bbls., kgs lb 1.05 - 1.15
Chloride, cryst., dms lb .93 - —
Citrate, NF, bbls, dms., kgs lb. 1.05 - 1.40
Fluoride, bbls lb. 1.80 - 2.00
Hydride, dms., works lb.14.00 -18.50
Hydroxide, monohydrate, dms lb. .90 - 1.25
Salicylate, dms lb. 1.62 - 1.70
Lithopone, ordinary, bgs, c.l. dlvd. lb. .07 - .07¼
l.c.l., dlvd. lb. .07¾- .08¼
Titanated (high-strength), bgs., c.l., dlvd lb. .09¾- —
l.c.l., dlvd. lb. .10¾- —
Lithopone prices, Pacific Coast, 1c. per lb. higher.

"lead" makes paint films water resistant

— that's one reason why house paints containing "lead" last longer

EFFECT OF WATER ON PAINT FILM

Experimental paint films with varying "lead" pigmentation, after stripping, soaking and drying. As the lead content increases, from left to right, disintegration is materially reduced.

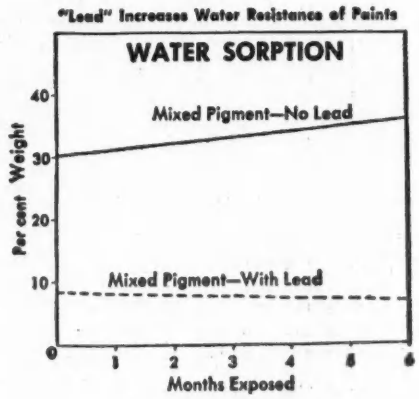
Water is probably the worst enemy of any paint film. It tends to decompose and dissolve away portions of the film. It also tends to emulsify the film causing it to swell and blister. It is generally considered the greatest single cause of loss of adhesion.

The inclusion of white lead pigments in formulations for house paints is the surest means of mastering these conditions. Paints containing "lead" are highly resistant to water—absorb only a small percentage of what they would otherwise. On films of lead-pigmented paints, water appears as distinct droplets—does not penetrate—whereas paint films lacking this ingredient are completely wetted.

This high repellency to water—resistance to pick-up of water within the film—is another reason for using "lead" in your paints. And use enough of it to take full advantage of the many desirable qualities that white lead pigments impart—qualities which mean better paints, greater consumer satisfaction and larger sales.

For detailed information on the most effective use of "lead" in your paints . . . write to *Lead Industries Association, 420 Lexington Avenue, New York 17, N. Y.*

"Lead" Increases Water Resistance of Paints



Water sorption graph shows how lead decreases the water pick-up of mixed pigment paints.

"LEAD" LENGTHENS THE LIFE OF PAINT BECAUSE:

It Stabilizes — neutralizes acidic compounds resulting from the decomposition of the vehicle — prevents the film from becoming soft or liquefying.

It Plasticizes — forms lead soaps which increase film flexibility.

It Strengthens — flexible, spiney crystals in lead soaps mechanically reinforce the film and increase elastic strength.

It Resists Water — paint films with an optimum lead pigment content absorb only a small fraction as much water as they otherwise would.

Liverwort leaves bls	lb.	.70	.75
Lobelia herb, bls	lb.	.55 -	.60
leaves, NF	lb.	.85 -	.90
Lobeline sulphate, bots., works	oz.	34.00	-38.00
Logwood extract, crystals, No. 1, bbls., l.c.l.	lb.	.38½	—
No. 2, bbls., l.c.l.	lb.	.36½	—
liquid, No. 1, bbls., l.c.l.	lb.	.18½	—
No. 2, bbls., l.c.l.	lb.	.17½	—
No. 3, bbls., l.c.l.	lb.	.17	—
No. 4, bbls., l.c.l.	lb.	.16½	—
solid, No. 1, bxs., l.c.l.	lb.	.33	—
No. 2, bxs., l.c.l.	lb.	.31	—
No. 3, bxs., l.c.l.	lb.	.28½	—
No. 4, bxs., l.c.l.	lb.	.28	—
No. 5, bxs., l.c.l.	lb.	.26½	—
No. 6, bxs., l.c.l.	lb.	.44½	.49½
Lovage root, imported, bls	lb.	.75	.80
Lupulin, tins	lb.	1.95	2.00
Lycopodium, cs	lb.	1.35	1.50
Lysine hydrochloride, dextro-laevo, bots	kilo.	145.00	-149.00

M

Mace, Amboina, bls	lb.	No prices.	
Banda, No. 1, bls., afloat	lb.	1.95	2.00
Siauw, No. 1, bls	lb.	1.25 -	1.30
afloat	lb.	1.20 -	1.25
West Indian, cs	lb.	1.25 -	1.30
Dec.-Jan. shipment	lb.	1.20 -	1.25
broken, cs., December delivery	lb.	1.00 -	—
Madder Dutch bgs	lb	.29	.33
Magnesia calcined, tech., ctns., works	lb.	.32 -	.34¼
synth. rubber grade, ctns., works	lb.	.31	—
USP, light ctns	lb.	.34 -	.36
heavy, bbls	lb.	.36 -	.38
Magnesium arsenate, bgs., cans, works	lb.	.20	.30
Bromide, jars	lb.	.90	1.00
Carbonate, tech., bgs., c.l., frt. equald	lb.	.09½ -	—
l.c.l., frt. alld	lb.	.10½ -	—
bbls., c.l., frt. equald	lb.	.10¾ -	—
l.c.l., frt. alld	lb.	.11¾ -	—
kgs., c.l., frt. equald	lb.	.12 -	—
l.c.l., frt. alld	lb.	.13 -	—
USP, bgs., c.l., frt. equald	lb.	.11¼ -	—
l.c.l., frt. alld	lb.	.12¼ -	—
bbls., c.l. frt. equald	lb.	.11¾ -	—
l.c.l., frt. alld	lb.	.12¾ -	—
kgs., c.l., frt. equald	lb.	.13 -	—
l.c.l., frt. alld	lb.	.14 -	—

Magnesium carbonate is quoted frt. alld to N. J. except to Atlantic, Burlington Cape May Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations

Chloride, anhyd., dms., works	lb.	.12¾ -	.15
flake, bbls., c.l., works	ton.	45.00	—
l.c.l., works	ton.	49.00	-51.00
Gluconate, dms., cns	lb.	1.88	1.93
Glycerophosphate, dms., works	lb.	5.10	5.20
Hydroxide NF medicinal, bbls., dms., kgs	lb.	.29	.30
Hypophosphite dms	lb	1.60	—
Laurate, bbls	lb.	.46	.47
Metal, 99.8% ingots, cs., works	lb.	.24½ -	—
sticks, cs., works, frt. alld. on carlots	lb.	.42 -	.44
Oleate, fused, bbls	lb	.31	—
Oxide (see Magnesia calcined)			
Peroxide, 15%, dms., works	lb	1.00	1.05
Phosphate, tribasic, NF, bbls	lb	.75	—
Silicate (see Talc).			
Silicofluoride bbls., works	lb.	.09	.10
Stearate, ctns., c.l.	lb.	.43 -	—
smaller lots	lb.	.46 -	.47
Sulphate (see Epsom salt)			
Trisilicate, USP, dms., 5,000-lb. lots	lb	.43	—
1,000-lb. lots	lb.	.45 -	—
100-lb. lots	lb.	.50 -	—
Magnesite, chemical grade, bgs., c.l., works, frt. equald	ton.	72.50	—
dead-burnt bulk, c.l. standard grain, Chewalah, Wash.	ton.	36.30	—
Maleic anhydride dms., c.l., dlvd.,	lb.	.37 -	—
l.c.l., dlvd.	lb.	.38 -	—

Prices on maleic anhydride West of Rockies 1½c. higher

Malva flowers, black, bls	lb	1.00	1.20
Blue, bls	lb	.95	1.10
Leaves, bls	lb.	.38	.40
Mandrake root, bls	lb.	.40 -	.41
Manganese acetate bbls.	lb	.32	—
Arsenate, bgs	lb	.12	12½
Borate, tech., bbls	lb	.23	—
Carbonate, bbls., works	lb	.21	—
Chloride anhyd. dms works	lb	.20	.22
Dioxide, African, battery, 84-87%, bgs., 100 tons, works	ton.	78.00	—
smaller lots, works	ton.	84.00	-94.00
Gluconate, dms., cns	lb.	1.86	1.93
Glycerophosphate, NF, fib. dms	lb.	4.70	4.80
Hydrate, bbls works	lb	.34	—
Hypophosphite, NF, dms	lb	2.00	—
Linoleate, liquid, 4.35% Mn., dms.,	lb.	.30½ -	—
solid, precip., 8.2% Mn., bbls	lb.	.33½ -	—
Metal, cs., dlvd. East	lb.	.30 -	.32
Naphthenate, liquid, 6% Mn., dms., frt. alld.	lb.	.24½ -	—
Oleate, precip., bbls	lb.	.33½ -	—
Resinate, fused, 3½% Mn., dms.,	lb.	.20½ -	—
precip., dms	lb.	.22½ -	—
Stearate, ctns., c.l.	lb.	.43 -	.46
smaller lots	lb.	.47 -	—
Sulphate, tertilizer grade, 65% bgs., c.l., dlvd., S. E.	ton.	66.00	—
l.c.l., dlvd., S. E.	ton	73.00	—
feed grade, 80% bgs., dlvd., S. E.	lb.	.05¼	.07
75% bgs., c.l., dlvd., S. E.	ton	76.00	—
l.c.l., dlvd. S. E.	ton.	83.00	—
Tallate, 6%, dms	lb.	.20¾ -	—
Mangrove bark, E. Africa 38% tan min., c.l., ex dock	ton	No stocks	
So. American, 30-32% tannin, c.l., ex dock	ton.	52.00	-53.00
Manna, flake, large, cs	lb	1.10	1.35
small, cs	lb	.85	1.00
Mannitol, com'l, dms., works	lb	.40	.43
reagent 50-lb. dms., works	lb	.85	—
Marjoram, Argentine, bls	lb.	No stocks	
Bohemian, bls	lb.	.36 -	.38½
Chilean, bls	lb.	.37	.38
French, bls	lb.	.43 -	.49
Peruvian, bls	lb.	.34 -	.42
Matico, leaves, bls	lb	.25	.33
Melamine, bgs., ton lots, works	lb	.33	—
500 lbs. or more, works	lb	.33½ -	—
less 500 lbs., works	lb	.38½ -	—
Menadione, USP, bots	gram	.06½	—
Menthol, natural, USP, bots	lb.	11.80	-12.00
synthetic, USP, racemic, cns	lb.	8.00 -	8.50
Menthyl salicylate, tins	lb	4.00	4.25
Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld	lb.	.34 -	—
less ton lots, same basis	lb.	.36 -	—
Mercaptobenzothiazyldisulphide, bgs., fib. dms., ton lots, works, frt. alld	lb.	.42 -	—
less ton lots, same basis	lb.	.44 -	—
Mercury, ammoniated (see White precipitate).			
Bichloride (see Corrosive sublimate)			
Chloride (see Calomel)			
Iodide, red, NF, fib. dms	lb.	4.67 -	—
yellow, NF, fib. dms	lb.	4.72 -	—
Mercury metal (see Quicksilver).			
Oxide, red, NF (see Red precipitate).			
yellow, tech. (see Yellow, mercury oxide)			
USP, fib. dms	lb.	3.09 -	—
Mesityl oxide, dms., c.l., dlvd	lb.	.13¼ -	—
l.c.l., dlvd.	lb.	.14 -	—
tanks, dlvd	lb.	.11½ -	—
Metaldehyde, dms., works	lb	.78	1.00
Metachloraniline, dms., works	lb.	.80 -	—
Metacresol, 98%, dms., c.l., works	lb.	.75 -	—
l.c.l., works	lb.	.76 -	—
Metanitroanilin, dms., frt. alld.	lb.	1.05 -	—
Metanitroparatoluidin, bbls.	lb.	1.44 -	1.54
Metaphenylenediamine, kgs., frt. alld.	lb.	.90 -	—
Metatoluidine, bbls., c.l., works, frt. alld.	lb.	.78 -	—
l.c.l., same basis	lb.	.80 -	—
tankcars, same basis	lb.	.76 -	—
Metatolylenediamine, kgs., frt. alld.	lb.	1.00 -	—
Methanol, natural denaturing grade, dms., c.l., frt. alld.	gal.	.78 -	—
l.c.l., frt. alld.	gal.	.79 -	—
tanks, frt. alld.	gal.	.70 -	—

Prices on natural methanol W. of Miss. 3c. higher.

synthetic, zone 1, dms., c.l., frt. alld.	gal.	.44 -	—
l.c.l., frt. alld.	gal.	.49 -	—
tanks, frt. alld.	gal.	.32 -	—
zone 2, dms., c.l., frt. alld.	gal.	.49½ -	—
l.c.l., ex whse.	gal.	.54 -	—
tanks, frt. alld.	gal.	.35½ -	—

Synthetic methanol zones are: Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho, Mont., and Utah. Zone 2 is remainder of the U. S., west of above state boundaries, comprising Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).

Methionine, dextro-laevo, fib. dms., frt. alld., 50-lb. or more	lb	4.55 -	—
feed grade, 98%, fib., dms., same basis	lb.	3.00 -	—
97%, fib., dms., same basis	lb.	2.97 -	—
Methoxychlor, 50% sol., dealers, dms. cs., works	lb.	.65	—
Methyl abietate, non-ret., dms., c.l., dlvd., zone 1	lb	.17	—
l.c.l., same basis	lb	.17½ -	—
hydrogenated non-ret. dms., c.l., dlvd., zone 1	lb.	.17¼ -	—
l.c.l., same basis	lb	.17¾ -	—

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn., St. Louis, Mo., Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetoacetate, dms., c.l., dlvd	lb.	.53	—
l.c.l., dlvd	lb	.54	—
tanks, dlvd	lb	.51½ -	—

Methyl acetoacetate prices frt. alld. W. ½c. higher.

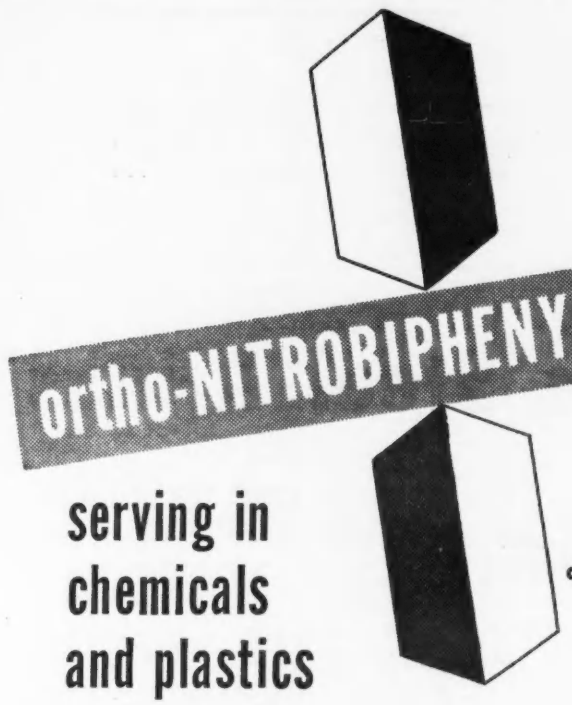
Acetone, natural, dms., c.l., E. of Miss., frt. alld.	gal.	.57 -	—
l.c.l., same basis	gal.	.62 -	—
tanks, same basis	gal.	.45 -	—

Natural methyl acetone prices W. of Miss. 3½c. per gal. higher.

synthetic, dms., c.l., works, frt. alld., E.	gal.	.62 -	—
l.c.l., works, frt. alld., E.	gal.	.67 -	—
tanks, works, frt. alld., E.	gal.	.50 -	—

Methyl acetone, synth., East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory, all States West of those four.

Methyl acrylate, dms., c.l., and truckload, works	lb.	.50 -	—
less than truckload, works	lb	50½ -	—
Alcohol (see Methanol)			
Anthranilate, cns., 100 lbs. or more	lb.	2.50 -	2.55
extra, cns	lb	4.00	4.40
Benzoate, cns., dms	lb.	.60 -	.65
Bromide, jobbers, cyls., various sizes, works	lb.	.47 -	.61
Chloride, indust., cyl., works	lb.	.18	.18¼
tanks, multi-unit, works	lb.	.13½ -	.14
single-unit, works	lb.	.11 -	.11½
refrigerator mfrs., cyls., dlvd	lb.	.39	.48
other consumers or service men, cyls., dlvd	lb.	.49	—
Cinnamate, cns	lb.	1.43	1.75
Cyclohexanol, dms., c.l., works	lb.	.30½ -	—
l.c.l., works	lb.	.31 -	—
tanks, works	lb.	.29 -	—
Formate, refd., dms	lb	.35	.40
tech., non-ret., dms., any quantity, works	lb	.08	—
tanks, works	lb	.07	—
Iodide, bots., works	lb	3.65	4.78
chys., works	lb	2.80	3.00
Lactate, dms., c.l., works	lb	.35	—
Methacrylate, dms., c.l. and truckload, works	lb.	.44½ -	—
less than truckload, works	lb	.45	—
Parahydroxybenzoate, USP, bots	lb	2.10	2.20
fib. dms	lb	1.90	2.00
Roseanilin chloride, USP, bot.	lb	5.17	5.27
Salicylate, USP, dms., 500 lbs.	lb.	.50 -	—
cans, 50 lbs.	lb.	.55 -	—
Testosterone, USP, 100 gms.	gm	3.50	—
Methylheptin carbonate, bots.	lb.	35.00	-45.00



serving in chemicals and plastics

Monsanto's ortho-nitrobiphenyl, technical, (also known as ortho-nitrodiphenyl) is used as an intermediate in chemical synthesis, sometimes as an alternate for substituted nitrobenzenes. It also serves as a plasticizer in plastics. In any of its varied applications, ortho-nitrobiphenyl offers both economy and efficiency.

Molecular weight of Monsanto's ortho-nitrobiphenyl is 199.20. It is a light yellow-to-reddish crystalline solid. Its crystallizing point is 34.5° C., minimum; and its boiling point approximately 325° C. It is available for immediate shipment in 525-pound steel drums.

If you want further information on ortho-nitrobiphenyl . . . or any Monsanto intermediate or heavy chemical . . . contact the nearest Monsanto Sales Office or mail the coupon. MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1754-E South Second Street, St. Louis 4, Missouri.

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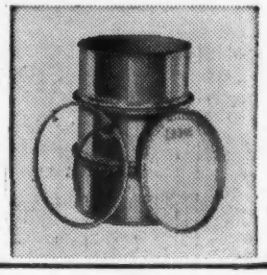
Methylal, refined 95% dms., c.l., works lb. .11 - —
l.c.l. works lb. .12 - —
tanks, works lb. .09 —
Methylamyl acetate, dms., c.l., dlvd. lb. .15¼- —
l.c.l., dlvd lb. .16¼- —
tanks, dlvd lb. .13½- —
Ketone, dms., works lb. 1.05 - —
Methylcellulose, special vis., (1,500-4,000 cps.), fib. ctns., c.l., works lb. .78 - —
2,000 lbs. and more, same basis lb. .80 - —
smaller lots, frt. alld. on 100 lbs. .85 - .97
standard vis., (15-400 cps.), fib. ctns., c.l., frt. alld. lb. .66 - —
2,000 lbs. and more, same basis lb. .68 - —
smaller lots, frt. alld. on 100 lbs. lb. .73 - .85
Methylene blue, 100-lb. lots, kgs., frt. adjusted lb. 3.25 - —
smaller lots, kgs. same basis lb. 3.40 - 3.60
Chloride, indust., dms., c.l., dlvd. E. lb. .13 - —
l.c.l., dlvd. E. lb. .14 - —
tanks, dlvd. E. lb. .11½- —
Methylethylketone, dms., c.l., dlvd. lb. .12¾- —
l.c.l., dlvd lb. .13½- —
tanks, dlvd lb. .11 - —
Methylionone, A, cns lb. 6.55 8.80
D, cns lb. 7.50 9.55
prime, cns lb. 4.55 6.40
Methylisobutyl carbinol (see Carbinol, methylisobutyl).
Ketone, dms., c.l., dlvd lb. .14¾- —
l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .13 - —
Methylnapthyl ketone, cns lb 3.00 3.75
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexylenegiycol)
Methylphenylpyrazolone, 250-lb. dms., dlvd. lb. 1.60 - 1.70
less than 250 lbs., dms., dlvd lb. 1.80 - 1.90
Methylthionine chloride (see Methylene blue).
Mica dry-grd., paint, plastic, 10# mesh, bgs., c.l., works lb. .04½- —
roofing, 20 to 80 mesh, works lb. .03½- —
wet-grd., biotite, bgs. c.l. works, frt. alld., E lb. .05¾- —
l.c.l., ex whse., or frt alld. E lb. .06½- —
extra fine, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l. ex whse or frt alld. E lb. .06½- —
paint or lacq., bgs., c.l., works, frt. alld., E lb. .07¼- —
l.c.l., ex whse. or frt alld. E lb. .08 —
rubber, bgs., c.l., works, frt. alld. E lb. .07 - —
l.c.l. ex whse. or frt alld E lb. .07¾- —
wallpaper, bgs., c.l., works, frt. alld. E lb. .07¼- —
l.c.l., ex whse. or frt. alld. E lb. .08 —
white, extra, fine, bgs., c.l., works, frt. alld. E lb. .07½- —
l.c.l., ex whse. or frt. alld. E lb. .08 —
Mica, wet-grd., W. of Miss. R. ½c. higher, W. of Rockies, 1c. higher
Milk powder, skimmed, roller, bbls., c.l. lb. .12½- .13¾
spray, bbls., c.l. lb. .13 - .15¼
Whole, roller, bbls., c.l. lb. .31½- .36½
spray, bbls., c.l. lb. .33 - .36¾
Sugar, crude, bgs., c.l., works lb. .16 - —
edible, bbls., works, 30,000-lb. lots lb. .22 - —
2,000-lb. lots lb. .23¾- —
200-1,800-lb. lots lb. .23¼- —
USP, bbls., works, 30,000-lb. lots lb. .26 - —
2,000-lb. lots lb. .26¾- —
200-1,800-lb. lots lb. .27¼- —
Mineral spirits (see Petroleum, mineral spirits)
Molasses, blackstrap, tanks gal. .26½- .27½
New Orleans, tanks gal. .26½- —
Molybdate orange (see Orange molybdate).
Molybdenum metal, 99% Mo., powd., kgs. lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.35 - —
technical, kgs., works, basis Mo. content lb. 1.13 - 1.14
Monochlorobenzene, dms., c.l., frt. alld., or dlvd. lb. .10½- .11½
l.c.l., same basis lb. .11½- .12½
tanks, same basis lb. .09 - .10
Monochlorobenzene prices in the West, 1¼c. higher.
Monoethanolamine, dms., c.l., frt. alld. E., basis 100% lb. .29¾- —
l.c.l., same basis lb. .30¾- —
tanks, same basis lb. .28 - —
Monoethylalphanaphthylamine, dms., works lb. .88 - —
Monoethylamine, dms., c.l., frt. alld. E., basis 100% lb. .32 - —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Monoethylorthotoluidine, bbls. lb. .80 - —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100% lb. .35 - —
l.c.l., same basis lb. .35½- .36
tanks, same basis lb. .31 - —
Monononylnaphthalene, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Monosodium glutamate (see Sodium glutamate, monobasic).
Phosphate (see Sodium phosphate, monobasic).
Monotertiarybutylmetacresol, dms., c.l., works lb. .50 - —
l.c.l., works lb. .51 - —
tanks, works lb .49 - —
Morphine, cns. oz. 12.40 -12.60
Acetate, cns. oz 9.85 9.90
Hydrobromide, cns. oz. 9.90 9.90
Hydrochloride, NF, cns oz 9.90 10.00
Sulphate, USP, cns oz. 9.90 -10.00
Morpholine, dms., c.l., works lb. .60½- —
l.c.l., works lb. 61 - —
tanks, works lb. .59 - —
Mountain ash berries, bgs lb. 65 - .75
Mullein flowers, cs lb 1.15 - 1.20
Leaves, bls. lb. .21 - .25
Musk, natural, Tonquin, grains, bots. oz. 40.00 -45.00
synthetic—Ambrette, 100 lbs., fib. dms lb. 5.40 - —
25 lbs., cns lb. 5.50 - —
5 lbs., cns lb. 5.65 - —
Ketone, 100 lbs., fib. dms. lb. 5.15 - —
25 lbs., cns lb. 5.25 - —
5 lbs., cns lb. 5.40 - —
Xylol, 100 lbs., fib. dms. lb. 1.50 - —
25 lbs., cns lb. 1.60 - —
5 lbs., cns lb. 1.70 - —
Musk root, bls lb No prices.
Monoisopropylamine, dms., c.l., frt. alld. E lb. .29¾- —
l.c.l., same basis lb. .30¾- —
tanks, same basis lb. .28 - —
Mustard seed, Calif., brown, bgs., f.o.b. source lb. .09¾- .10
Danish yellow, bgs., futures lb. .16½- .17
English, yellow, bgs lb. .16¼- .16½
Montana, brown, bgs., source lb. .08 - .08½
Oriental, bgs., source lb. .10 - .10½
yellow, bgs., source lb. .15 - .15½
Washington yellow source, bgs. lb. No prices.
Myrobalans, J1, assorted, bgs., ex dock ton. 45.50 -46.50
crushed, bgs., ex dock ton. 71.00 - —
J2, bgs., ex dock ton. 36.50 -37.50

N

Naphtha, painters (see Petroleum naphtha, V M & P.)
Solvent (see S)
Naphthalene, dom., crude, 74°, tanks, frt. alld lb. .0625- —
78°, dms., c.l., same basis lb. .0765- .0790
l.c.l., same basis lb. .0790- .0815
tanks, same basis lb. .0675- .0700
refined, industrial, bbls., c.l., frt. equald lb. .11¾- —
bgs., c.l., same basis lb. .11¼- —
tanks, same basis lb. .10¾- —
balls, flakes, wholesalers, jobbers, bbls. c.l. same basis lb. .14½- —
cs. 50 lbs., c.l. same basis lb. .14¾- —
1-lb pkgs. c.l. same basis lb. .17 - —
imported, crude, 78°, large lots, lb. .05 - .05½
Neocinchophen, USP, dms., frt. adjusted lb 7.00 - 7.35
Nephelin syenite, glass, 24 mesh, bulk, Rochester, N Y ton. 14.25 - —
pottery, 200 mesh, bulk, Rochester, N Y ton 18.25 - —
Nephelin syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns lb. 2.25 - 2.30
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb. .57 - .57½
Carbonate, bbls., dlvd lb. .60½- .61
Chloride, bbls., dlvd lb. .31 - —
Cyanide, bots., dms lb. 1.75 2.00
Formate, bbls., ton lots, frt. alld. lb. .54¾- —
Metal, electro cathodes, cs lb. .50½- —
Nitrate, bbls., works lb. .29¾- —
Oxide, black, bbls lb. 42 - —
Sulphate, bgs., c.l., dlvd lb. .23½- —
l.c.l., dlvd lb. .24 - —
Nicotinamide, USP, dms, frt adjusted kilo. 12.00 -12.30
Hydrochloride, dms, frt adjusted kilo. 11.50 -11.80
Nicotine sulphate, 40% 50-lb. dms., dealers frt. alld. over 70 lbs., dm 49 40 - —
tins 10 lbs. dealers, frt. alld on cases of 6 tin 10 85 - —
Nikethamide, cbys. lb. 5.75 - 6.75
Nitrobenzene, dbl. dist., dms., c.l., frt. alld. lb. .10 - .11
l.c.l., frt. alld lb. .11 - .12
tanks, frt. alld lb. .09 - .10
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .29 - —
l.c.l., same basis lb. .30 - .32
18-25 cps., c.l lb. .31 - —
l.c.l., same basis lb. .32 - .34
230-400, 600-1,000 secs., c.l., same basis lb. .35 - —
l.c.l., same basis lb. .36 - .38
spirit-soluble, 30-35 cps., ¼, ½, sec., c.l., same basis lb. .38 - —
l.c.l., same basis lb. .39 - .41
5-6, 40-60 secs., c.l., same basis lb. .37 - —
l.c.l., same basis lb. .38 - .40
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra, but returnable.
Nitroethane, dms., dlvd., E. of Rockies lb. .25 - —
Nitrogen solution, tanks, work N ton. 115.00 -120.00
Nitrogenous process tankage, bulk works, ammo., ship't. unit-ton. 4.30 - 4.75
Sewage sludge, bulk, works, unit ton. 3.25 + 40
Nitromethane, dms., l.c.l., dlvd. E. of Rockies lb. .25 - —
Nitropropane, 1, dms., dlvd., E. of Rockies lb. .23¼- —
2, dms., dlvd., E. of Rockies lb. .25 - —
Nonylphenol, dms., c.l., works lb. .28½- —
l.c.l., works lb. .29½- —
tanks, works lb. .27½- —
Nutgalls, Aleppo, bgs lb. .38 - —
Chinese, bgs lb. .32 - —
Istrian, bgs lb 31 - —
Nutmeg, East Indian, 110's, cs lb. .65 - .66
afloat, cs lb. .63 - .64
West Indian, bgs lb. .47 - .47½
futures, bgs lb. .50 - .50½
Nux vomica, bls. lb .10 - .12
powdered, bbls., bxs lb .13 - .14



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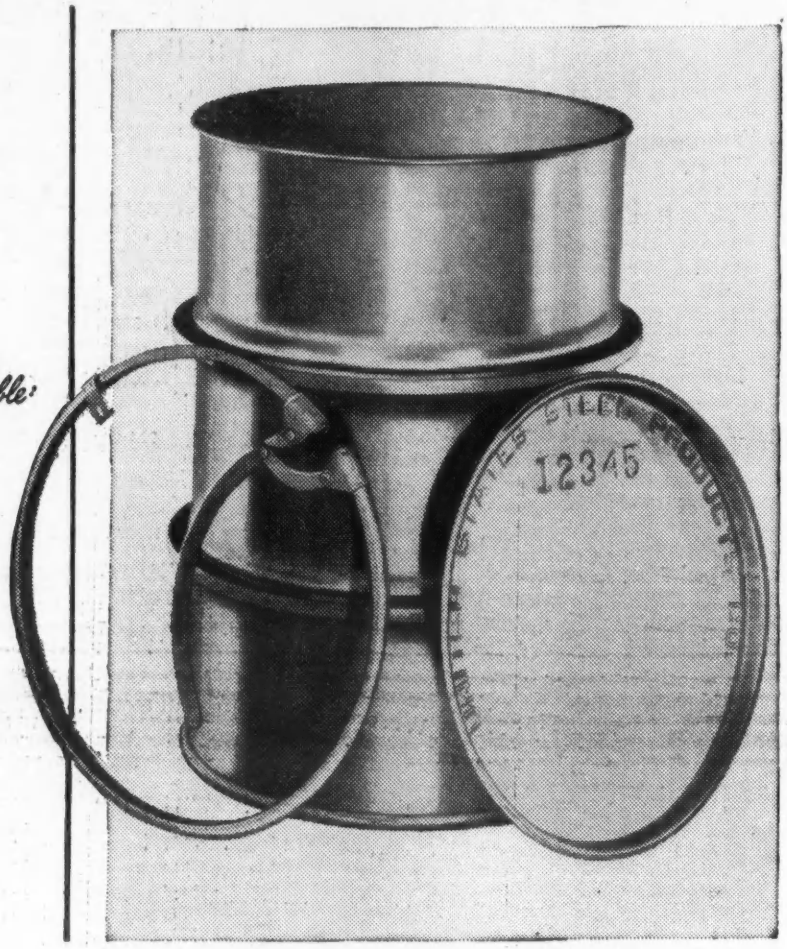

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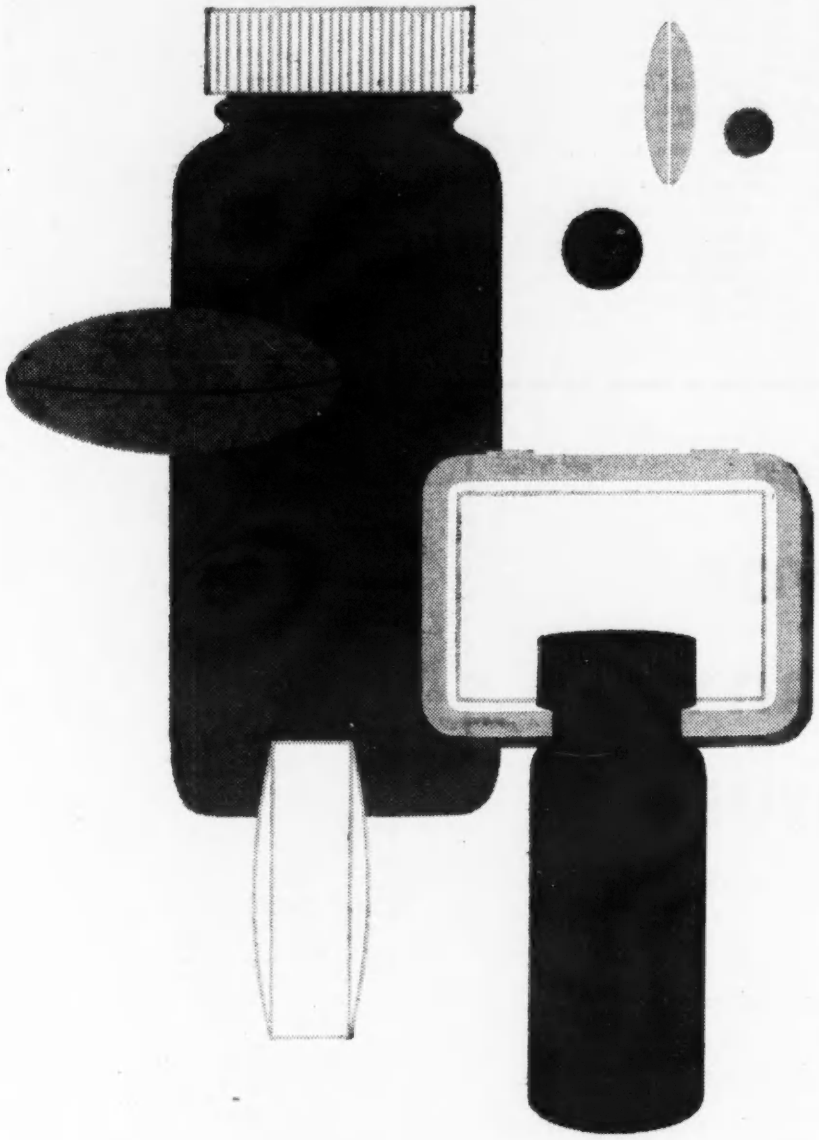

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O

Oakbark extract, 25% tannin, bbls., c.l., works..lb. No stocks.
Octane, 100°-140° C, industrial grade, group 3, dms., c.l. gal. .19 - —
t.c.l. gal. .21 - .60
tanks gal. .15½- —
10°C., b.r. Bayonne, N.J., tanks gal. .18 - —
Octanol, normal, tecn., dms., c.l., dlvd..lb. .38½- —
l.c.l., dlvd..lb. .39½- —
tanks, dlvd..lb. .36 - —
Octyl methacrylate, normal, dms., less than truckload, works. lb. .83 - —
Oil, abies siberica, cns..lb. 4.00 - 4.35
Almond, artificial, bitter (see Benzaldehyde)
natural, bitter, F.P.A., bots..lb. 3.15 - 3.85
NF, bots lb 3.00 3.75
sweet, USP, dms., cns..lb. .55 - .90
Allspice (see Oil, pimento).
Amyris, dms..lb. 1.75 - 2.00
Angelica root, bots..lb.150.00 -160.00
seed, bots..lb.100.00 -130.00
Anilin (see A)
Anise, USP, Chinese, dms..lb. 1.30 - 1.65
Apricot kernels, USP, dms..lb. .48 - .65
Avocado, cns., dms lb 1.00 - 1.10
Babassu, crude, tankcars..lb. .20½- —
Bay, NF, Puerto Rican, 50-55%, cns..lb. 1.50 - 1.60
55-60%, cns..lb. 1.70 - 2.00
West Indian, 50-55%, cns., dms..lb. 1.50 - 1.70
Bergamot, artif., cns..lb. 3.75 - 5.25
natural, NF, Italian, cns..lb. 6.25 - 7.00
Oil, birchtar, crude, cns..lb. 1.65 - —
rectified, NF, cns..lb. 4.75 - —
Bois de rose, Brazil, dms..lb. 4.10 - 4.75
Mexican (see Oil, lignaloe wood)
Bone, dms., works gal. .65 - .70
Cajeput, redist., USP, cns..lb. 2.65 - 2.85
tech., dms..lb. 2.10 - 2.35
Calamus, cns..lb.20.00 -28.00
Camphor, sassafrassy, dms..lb. .26 - .60
white, dms..lb. .25 - .69
Cananga, native, cns..lb. 5.00 - 5.25
rectified, cns..lb. 6.00 - 6.50
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns..lb. 4.00 - 5.10
Cardamom, NF, bots..lb.60.00 -85.00
Cassia, USP, cns., dms..lb. 4.75 - 5.50
Castor, blown, dms., c.l..lb. .3225- —
dms., l.c.l..lb. .3270- —
dehydrated, bodied, dms., c.l..lb. .3450- —
l.c.l..lb. .3525- —
tanks..lb. .3325- —
unbodied, dms., c.l..lb. .3350- —
l.c.l..lb. .3400- —
tanks..lb. .3225- —
hydrogenated, dms., l.c.l..lb. .3725- —
No. 3, tech., dms., c.l..lb. .3000- —
l.c.l..lb. .3050- —
tanks..lb. .2875- —
No. 1, Brazilian, tanks..lb. 28½ Nom.
No. 1, standard, dms., c.l..lb. .3025- —
l.c.l..lb. .3075- —
tanks..lb. .29 - —
refined and deodorized, dms., c.l..lb. .3150- —
l.c.l..lb. .3125- —
sulphonated, 50% (48% fat), dms. lb. .15½- .16½
75% (60-62% fat), dms..lb. .20½- .21½
Cedarleaf, USP, cns., dms..lb. 3.00 - 3.25
Cedarwood, cns..lb. .60 - .75
dms..lb. .55 - .70
Oil, celeryseed, bots..lb.16.50 -18.00
Chamomile, blue, Hungarian, bots. lb.250.00 -280.00
Chaulmoogra, NF, cns., dms..lb. .55 - .70
Chinawood (see Oil, tung).
Cinnamon bark, USP, bots..lb.30.00 -60.00
leaf, Ceylon..lb. 1.30 - 1.50
Citronella, Ceylon, cns., dms..lb. 1.70 - 2.05
Java, true, cns..lb. 2.40 - 2.65
Java type, cns..lb. 1.90 - 2.55
Clove, USP, from buds, cns., dms. lb. 2.05 - 2.45
Coconut, crude, tanks, Atlantic ports..lb. .17¾- —
Pac. Coast..lb. .16¾- —
refined, Cochin type, tax incl., dms., l.c.l..lb. .25¼- —
deodorized, tax incl., dms., l.c.l..lb. .27 - —
Cod, Newfoundland, dms..lb. .12½ Nom.
Codliver, USP, dms..gal. 1.80 - 1.90
Copaiba, cns..lb. 2.50 - 2.75
Coriander, USP, bots..lb.24.00 -28.50
Corn, crude, tanks, works..lb. .21¾- —
foots, acid, 95% tanks, dlvd. E..lb. .09½- —
raw, 50%, tanks, dlvd. E..lb. .04 - —
refined, dms., l.c.l., New York lb. .28 - —
tanks, same basis..lb. .25¼- .25½
Costus, bots..oz.25.00 - —
Cottonseed, crude, tanks, Southeast and Valley..lb. .21½- .21¾
foots, acid 95% tanks dlvd. E..lb. .09½- —
raw, 50%, tanks, dlvd. E..lb. .04½- —
refined, dms., l.c.l..lb. .25 - —
tankcars..lb. .26¼- —
Creosote (see Crotonic, cealtar).
Croton, cns..lb. 4.75 5.50
Crude (see Petroleum, crude)
Cubeb, cns..lb. 5.75 - 7.50
Oil, cumin, bots..lb. 4.50 - —
Cypress, bots..lb. No stocks.
Degras (see D).
Dillseed, india, bots..lb. 6.25 - 7.75
Dillweed, domestic, bots., dms..lb. 4.50 - 5.25
Dip (see D).
Erigeron, cns..lb. 5.25 - 7.25
Eucalyptus, NF, rectified, 80-85%, dms..lb. 1.10 - 1.25
70-75%, dms..lb. .90 - 1.10
Fennel, USP, cns..lb. 2.50 - 3.25
Fir, Canada, cns..lb. 2.10 - 2.25
Fishliver, crude, for feeds for concentrating, 6,000 to 12,000 A units per gm., dms., 1,000,000 units. .11 - .11¼
15,000 to 20,000 A units, dms. 1,000,000 units. .11 - .12
25,000 to 35,000 A units dms. 1,000,000 units. .11 - .12
40,000 to 55,000 A units dms. 1,000,000 units. .12 - .13
Market prices on crude fishliver oil dependent upon conversion factor
prime, natural, or concentrate, 100,000 A units, dms 1,000,000 units. .15 - —
200,000 A units, dms 1,000,000 units. .16 - —
300,000 A units, dms 1,000,000 units. .16 - —
400,000 A units, dms 1,000,000 units. .17 - —
500,000 A units, dms 1,000,000 units. .17 - —
700,000 A units, dms 1,000,000 units. .17 - —
Prices above are based on the USP XIII method of conversion, E. x 1894.
prime, nat. or conc., 100,000 A units dms 1,000,000 units. .16 - —
200,000 A units, dms 1,000,000 units. .17 - —
300,000 A units, dms 1,000,000 units. .17 - —
400,000 A units, dms 1,000,000 units. .18 - —
500,000 A units, dms 1,000,000 units. .18 - —
700,000 A units, dms 1,000,000 units. .18 - —
prices immediately above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.
Fuel (see Petroleum fuel oil).
Fusel (see F)
Garlic, pure, bots oz. 7.25 8.00
Gaultheria (see Oil, wintergreen)
Geranium, Algerian, cns..lb.22.50 -26.00
Bourbon, cns..lb.24.50 -27.50
Turkish (see Oil, palmarosa)
Ginger, dist., bots..lb.22.00 -25.50
Grapefruit, dms..lb. 1.25 - 1.50
Grease, No. 1, dms..lb. .20 - .20½
extra, winter, strained, dms..lb. .22¾- .23¼
prime, burning, dms..lb. .24¾- .25¼
Guaiacwood, cns..lb. 1.75 - 2.00
Hemlock, cns..lb. 2.00 - 2.75
Herring, crude, tanks, Pac. coast. lb. No prices.
Juniper berry NF VIII, bots lb. 2.75 - 4.00
twice rectified, bots..lb. 3.75 - 7.00
Tar, NF (see Juniper tar).
Wood, tecn., cns..lb. .65 1.00
Lard (see Oil grease).
Laurel, bots..lb. 9.75 -12.50
Lavandin, cns..lb. 4.00 - 4.50
Lavender flower, USP, French, 30-32% ester, cns..lb. 4.25 - 5.95
38-42%, ester, cns..lb. 5.75 - 8.00
40-42%, ester, cns..lb. 6.50 - 8.75
Spike, Spanish, cns..lb. 1.85 - 3.25
Lemon, USP, Calif., cns., dms..lb. 4.00 - 4.50
Messina, cns..lb. 3.50 - 8.00
Lemongrass, cns., dms..lb. 2.90 - 3.75
Lignaloe wood, Mexican, cns..lb. 3.80 - 4.05
Lime, distilled, Mexican, cns..lb. 6.00 - 7.00
West Indian, cns..lb. 6.75 - 7.25
expressed, West indian, cns lb 7.25 -13.75
terpeneless bot lb.45.00 -65.00
Linseed, raw, dms., c.l., Zone 3. lb. .2010- —
l.c.l..lb. .2070- .2100
tankcars..lb. .1870- —
tankwagon..lb. .1900- —
Mace, dist., cns., dms..lb. 3.70 - 4.90
Mandarin, Floridian dms..lb. 1.90 - 1.95
Italian, cns..lb. 5.25 8.50
Menhaden, crude, tanks, Balto.lb. .14½- —
refined, alkali, dms..lb. .1980- —
kettle-bodied, dms..lb. .2080- —
light-pressed, dms..lb. .1880- —
tanks..lb. .17 - —
Mineral, white (see Oil, white, mineral)
Mirbane (see Nitrobenzene).
Mustard seed, expressed, dms..lb. .24 - .24½
synthetic, cns., dms..lb. 1.60 - 1.70
Neatsfoot, 15°, dms..lb. .38 - .38½
20°, dms..lb. .36 - .36½
30°, dms..lb. .34 - .34½
Neroli, NF, French bots..lb.115.00 -195.00
Haitian, bots..lb.90.00 - —
Niaouli, cns..lb. 1.95 - 3.00
Nutmeg, USP, dist., East Indian, cns., dms..lb. 3.70 - 5.50
West Indian, cns., dms..lb. 3.65 - 4.00
Ocotea cymbarum, dms..lb. .70 - .90
Oiticica, liquid, dms..lb. .21 - .22
tankcars..lb. .20 - .20½
Oleo, extra, dms..lb. .20 - .21
Olibanum, bots..lb. 5.25 - 7.65
extra fine, bots..lb. 8.00 —
Olive, commercial, dms..gal. No stocks.
edible, dms., duty paid..gal. 2.90 - 3.00
foots, dms..lb. .17½- .17¾
Orange, sweet, dist., cns..lb. .75 - .90
expressed, USP Brazilian, cns., dms lb. No stocks.
Calif., cns..lb. 1.65 - 2.00
Florida, cns., dms..lb. 1.25 - 1.90
Messina, cns..lb. 3.50 - 5.50
West Indian, cns..lb 2.50 - 3.15
sesquiterpeneless, bots..lb.150.00 -155.00
Origanum, Spanish, cns..lb. 2.30 - 2.75
Palm, Congo, dms..lb. .19¼- —
tankcars..lb No stocks.
Palmarosa, cns..lb. 7.75 - 8.75
Palmkernel, crude, bulk, c.i.f. NY lb. No prices.
Paraffin, pale, 100-110 vis. at 100° F. tanks, East Coast refinery gal. .11½ —
Patchouli, dms..lb.24.00 -26.00
Peach kernel, USP (see Oil, apricot kernel)
Peanut, crude, tanks, Southeast lb. .21½- —
refined, dms., l.c.l..lb. .30 - —
tanks, New York..lb. .25½- —
Pennyroyal, USP, dom. cns lb. No stocks.
imported, cns..lb. 5.15 - 5.75
Peppermint, natural, dms..lb. 6.50 - 7.25
redist., USP., dms..lb. 7.00 - 7.65
Persic, USP (see Oil, apricot kernel)
Perilla, crude, dms..lb. No stocks.
Petitgrain, Paraguay, cns..lb. 3.00 - 3.60
Pimento berry, NF, dms..lb. 4.25 - 5.75
leaf, cns..lb. 1.65 - 2.00
Pine, dest.-dist., dms., extra, c.l., works, South..gal. .71 - —
l.c.l..gal. .72 - —
ex whse., N. Y. C..gal. .90 - —
steam-dist., dms. ex whse., nonret. dms., incl. l.c.l. ex whse., N.Y.C. lb. .117 - —
Pineneedle, Siberian (See Oil, abies siberica).

8 out of 10 say it's *best* for

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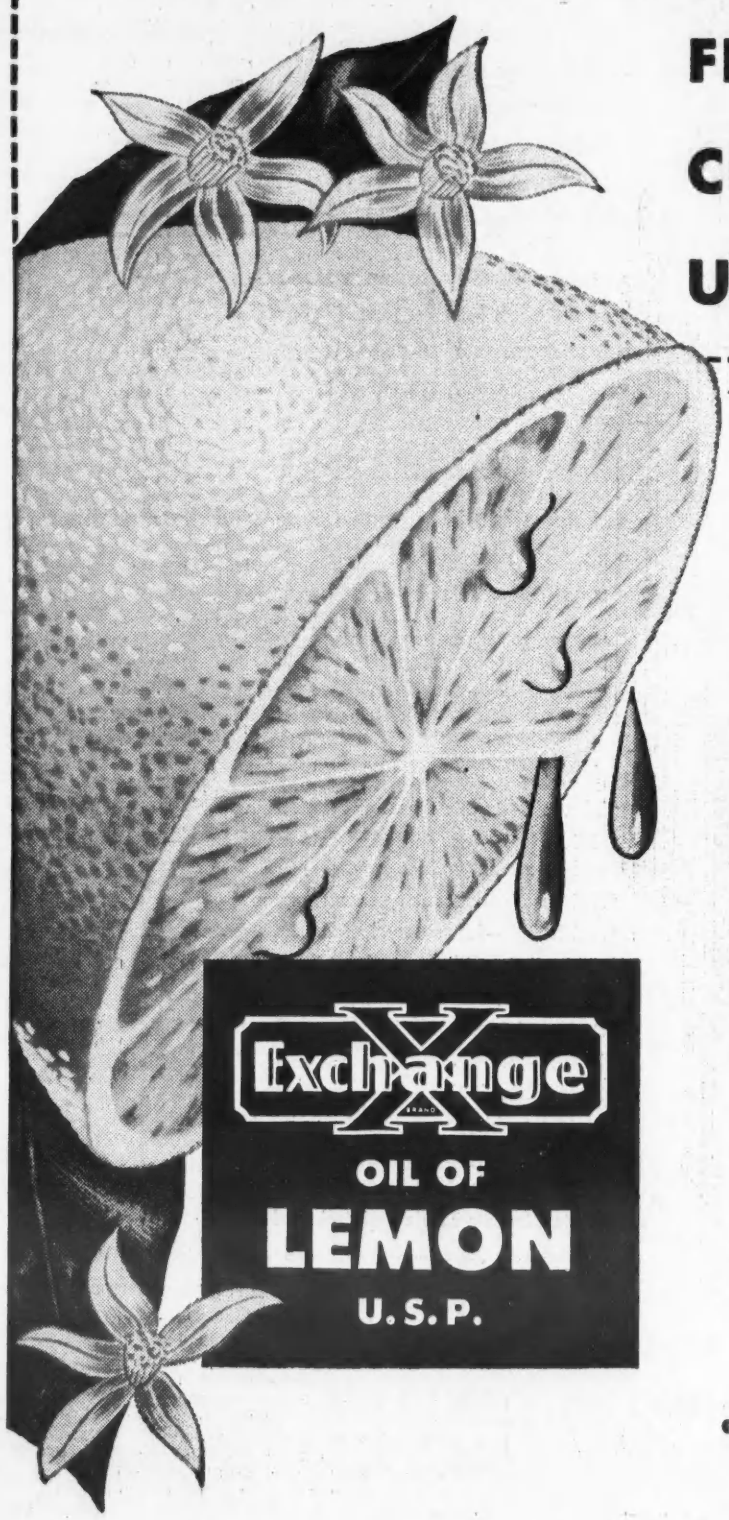
CLARITY

UNIFORMITY



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Some use Christmas bells...

Some use Christmas holly...

Some use a fat Santa Claus,
Round, red, and jolly...

But our wish takes all of them,
See? They're all here –
To say...

MERRY CHRISTMAS!

And a BRIGHT GOOD next year!

Norda ESSENTIAL OIL AND CHEMICAL COMPANY, INC.
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CHICAGO • LOS ANGELES • ST. PAUL • MONTREAL • TORONTO • HAVANA • MEXICO CITY • LONDON • PARIS

Oil, Putty—Paraffin

Oil, putty, petroleum, dms., c.l., dlvd.	lb.	.11	—
l.c.l., same basis	lb.	.12	—
tanks, same basis	lb.	.10	—
Rapeseed, tankcars	lb.	.22	—
Red, saponified, dms	lb.	.23¾	.25
tanks	lb.	.22¼	—
double dist., dms	lb.	.27	.28¼
tanks	lb.	.25½	—
single dist., dms	lb.	.24½	.25¾
tanks	lb.	.23	—
Rice bran, clarif., dms	lb.	.19½	Nom.
Rose natural Bulgarian, bots	oz.	33.00	45.00
Rosemary, Spanish tech., cns., dms	lb.	.65	1.00
USP, cns., dms	lb.	.95	1.30
Rue, bots	lb.	3.00	3.25
Safflower, dms., l.c.l.	lb.	.19¼	—
Sage, clary, bots	lb.	16.50	-17.35
Dalmatian, cns.	lb.	13.00	-15.25
Spanish, cns	lb	1.00	2.10
Sandalwood, NF, cns	lb.	11.75	-13.50
Sardine crude, tanks, Pac. coast.	lb.	.14½	—
refined, alkali, dms	lb.	.1980	—
kettle-bodied, dms.	lb.	.2080	—
light-pressed, dms.	lb.	.1880	—
tanks	lb.	.17	—
Sassafras, artificial, cns., dms.	lb.	.65	.95
natural, Brazilian (see Oil cocotes cymbarum)			
domestic, USP, cns., dms.	lb.	1.95	2.25
Savin, cns.	lb.	2.75	3.00
Savory, cns.	lb.	No stocks.	
Sesame, ref., dms., l.c.l.	lb.	.31½	—
Shingle stain, tar distillate, dms., c.l., works	gal.	.31	—
l.c.l., works	gal.	.33	—
tanks, works	gal.	.20	—
Snakeroot, Canada, cns	lb.	19.25	-35.50
Soybean, crude, tanks, mills	lb.	.19½	—
foots, acid, 95%, tanks, dlvd. E.	lb.	.09¾	—
raw, 50%, tanks, dlvd. E.	lb.	.04½	—
refined, alkali, dms., c.l.	lb.	.2330	—
l.c.l.	lb.	.2390	.2430
tanks	lb.	.2190	—
clarified, dms., c.l.	lb.	.2230	—
l.c.l.	lb.	.2290	.2330
tanks	lb.	.2090	—
edible, dms.	lb.	.24½	.25
tanks	lb.	.2240	—
Spearmint, USP, dms	lb.	4.75	5.25
Sperm, bleached, winter, 45°, dms.	lb.	.1620	.17
tankcars	lb.	.1520	—
natural, winter, 45°, dms.	lb.	.15	.16
tankcars	lb.	.14	—
Spruce, cns., dms	lb.	2.00	2.75
Sunflower-seed, imp., refined, tanks	lb.	No prices.	
semi-refined, tanks	lb.	No prices.	
Sweet birch, USP, Northern, cns.	lb.	4.95	5.50
Southern, cns.	lb.	2.00	3.50
Tall, crude, tanks, works	lb.	.02½	.03
refined, dms., c.l., works	lb.	.06¼	.07
l.c.l., works	lb.	.06½	.07¾
tanks, works	lb.	.05	.06¼
Tallow, acidless, dms	lb.	.20	.21
Tansy, dms	lb.	8.60	9.00
Tar, pine, com'l, dms., incl., c.l., works, South	lb.	.051	—
l.c.l., works, South	lb.	.0534	—
whse., N.Y.C.	lb.	.0678	—
tanks, works, South	lb.	.041	—
rectified, N.F., l.c.l., dms., extra, works, South	gal.	.67	—
whse, N.Y.C.	gal.	.77	—
Tar acid (see T).			
Teaseed, dms.	lb.	No stocks.	
Theobroma (see Cocoa butter)			
Thyme, NF, red, cns., dms	lb.	1.60	2.85
white, cns.	lb.	1.80	3.10
technical white, cns	lb.	.40	5.00
Tung, dom., tanks, mills	lb.	.26	.26¼
imported, dms., c.l.	lb.	.29½	Nom.
l.c.l.	lb.	.30	Nom.
tanks	lb.	.28	Nom.
Turkey red (see Oil, castor, sulphonated)			
Turpentine, NF, cns., dms	lb.	.28	.58
Vetiver, Bourbon, cns	lb.	25.00	-30.00
Haitian, cns.	lb.	21.00	-26.00
Java, cns	lb.	22.00	-26.00
Wheat germ 5-gal dms	gal	10.00	-13.00
White mineral, tech., 50-65 vis., dms., c.l., N. Y.	gal.	.50½	.53¼
l.c.l., same basis	gal.	.56½	.67½
65-75 vis., dms., same basis.	gal.	.51½	.54¼
l.c.l., same basis	gal.	.57½	.63½
USP, 80-90 vis., dms., c.l., same basis	gal.	.52½	.55¼
125-135 vis., dms., c.l., same basis	gal.	.58½	.61¼
l.c.l., same basis	gal.	.64½	.70½
145-155 vis., dms., c.l., same basis	gal.	.67¼	—
l.c.l., same basis	gal.	.76½	—
175-185 vis., dms., c.l., same basis	gal.	.68½	.71¾
l.c.l., same basis	gal.	.74½	.81
200-210 vis., dms., c.l., same basis	gal.	.71½	.73¾
l.c.l., same basis	gal.	.77½	.83
335-345 vis., dms., c.l., same basis	gal.	.76	.78¾
l.c.l., same basis	gal.	.82	.88
Wintergreen, USP, nat., Northern, cns.	lb.	6.00	-18.00
Southern, cns	lb.	3.25	-19.50
synthetic (see Methyl salicylate).			
Wood (see Oil, tung).			
Wormseed, NF, cns	lb.	6.75	7.50
Wormwood, cns	lb.	6.75	7.75
Ylang-ylang, Bourbon, bots	lb.	16.00	-18.00
extra, bots.	lb.	18.50	-25.00
Madagascar, bots	lb.	No stocks.	
Olein, crude (see Oil, red).			
white, low titre, dms	lb.	.27	.28¼
tankcars	lb.	.25½	—
Oleostearin, bbls.	lb.	.19	Nom.
Olivine aggregate c.l. mines	ton	7.00	9.50
crushed 8 mesh bulk c.l. works.	ton	10.00	—
paper bgs., c.l. works	ton	12.00	—
Opium USP, cns.	lb	19.20	19.45
gran., USP, cns.	lb	21.65	21.90
powd. USP, cns	lb	21.65	21.90
Orange cadmium, thiopone, obls. frt. alld. E. of Rockies	lb.	1.65	—

Chrome Orange obls. dlvd. N. of Tenn. and N. C. E. of Miss. R., includ. Davenport, Tenn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .30 .38½

Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport) 1¼c Miss., N. C., S. C., Tenn. Dallas and Ft. Worth, Tex. 1½c El Paso, Tex.; 2c Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c higher dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita; prices are equalized with Chicago.

Chrome dinitroanilin toner	lb	1.15	—
Mineral, American, bbls., l.c.l., ship't point, frt. alld	lb.	.2310	—
Molybdate, bbls.	lb.	.42	.43
Persian, bbls	lb	.30	.45
Orange flowers, bls	lb.	.40	.45
Peel, bitter, Haitian, bls	lb.	.13	.15
sweet, bls.	lb.	.15	.18
Oregano, Mexican, bgs	lb.	.15½	.16
Italian, bgs	lb.	.18	.18½
Portuguese, bgs.	lb.	.15	.15½
Orris root, Florentine, bls.	lb.	.18	.20
powdered, bbls., bxs.	lb.	.23	.24
Verona, bls	lb.	.15	.18
powdered, bbls., bxs.	lb.	.19	.24
Orthoamidophenyl, dms., c.l., works	lb.	.32½	—
l.c.l., same basis	lb.	.33	—
tanks, same basis	lb.	.31	—
Orthoanisidin, bbls.	lb.	.88	—
Orthochloroanilin, dms., 10,000 lbs. or more	lb.	.65	—
smaller lots	lb.	.75	—
Orthochloroparanitroanilin, dms., dlvd.	lb.	.76	.80
Orthochlorophenol, dms., c.l., frt. equald.	lb.	.30½	.31½
l.c.l., same basis	lb.	.31½	.32½
Orthocresol, pure, 30° C. non-ret., dms., c.l., frt. equald.	lb.	.196	—
l.c.l., same basis	lb.	.201	—
ret., dms., c.l., same basis	lb.	.195	—
l.c.l., same basis	lb.	.20	—
29° C. non-ret., dms., c.l., same basis	lb.	.188	—
l.c.l., same basis	lb.	.191	—
ret., dms., c.l., same basis	lb.	.185	—
l.c.l., same basis	lb.	.19	—
24-29° C. non-ret., dms., c.l., same basis	lb.	.178	—
l.c.l., same basis	lb.	.181	—
tanks, same basis	lb.	.165	—
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies	lb.	.11¼	—
l.c.l., same basis	lb.	.12¼	.12½
tanks, same basis	lb.	.09¾	—
Orthoisopropyl N-phenylcarbamate (see IPC).			
Orthonitroanilin, dms	lb.	.50	.53
Orthonitrochlorobenzene, dms.	lb.	.20	.21
Orthonitrobiphenyl, tech., dms., c.l., works	lb.	.14½	—
l.c.l., works	lb.	.15	—
tanks, works	lb.	.13	—
Orthonitroparachlorophenol, cns	lb.	.75	—
Orthonitrophenol, bbls., works	lb.	.94	—
Orthonitrotoluene, dms., c.l., frt. alld.	lb.	.10	—
l.c.l., frt. alld.	lb.	.11	—
tanks, frt. alld.	lb.	.09	—
Orthophenetidin, dms., works	lb.	1.00	—
Orthotoluidin, dms., c.l., works	lb.	.23	—
l.c.l., same basis	lb.	.24	—
tanks, same basis	lb.	.22	—
Osage orange crystals, bbls., l.c.l.	lb.	.33¼	—
extract, liquid, bbls., l.c.l.	lb.	.15½	—
Orthotolidin, (see Tolidine Base).			
Ouabaine USP, bots	gram.	3.00	4.00
Ox gall, dried, gran. or powd., dms., 5 lbs. and up	lb.	4.35	—
Oxyquinolin sulphate, cns., 100-lb. lots, works	lb.	4.75	—
smaller lots, works	lb.	5.00	—

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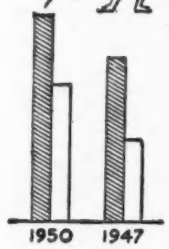
Pancreas substance, assay 1:75	lb.	5.75	6.25
Pancreatin, USP., bots.	lb.	2.50	3.00
Panthenol, bots., works, frt. adjust.	kilo	90.00	—
Papain, powd., NF, cs.	lb.	3.75	5.25
Papaverine, natural or synthetic, hydrochloride, USP, cns., 1,000-oz. lots	oz.	5.00	—
smaller tots	oz.	5.05	5.20
Sulphate, cns.	oz.	7.10	7.35
Paprika, Chilean, bgs.	lb.	.29½	Nom.
Portuguese, bgs.	lb.	.39	.40
Spanish, bgs.	lb.	.42	.45
Para-anisidin, dms., works	lb.	.88	—
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted	lb.	17.50	-21.00
Para-aminophenol, bbls., frt. alld	lb.	.88½	.98
Parachlorophenol, dms., c.l., frt. equald.	lb.	.30½	.31½
l.c.l., same basis	lb.	.31½	.32½
Parachloroanilin, dms., frt. alld. E. Miss.	lb.	.75	—
Parachloro-orthonitroanilin, dms., frt. alld.	lb.	.80	—
Paracresol, 98%, dms., dlvd.	lb.	.50	—
Paracymene, dms., works, 50 gals. or more	gal.	2.50	—
smaller quantities	gal.	3.00	—
Paradibromobenzene, bgs., 500-lb. lots.	lb.	.55	—
Paradichlorobenzene, dms., c.l., works	lb.	.14½	—
l.c.l., same basis	lb.	.17	.20
Paraffin, crude, scale, white or yellow, 119-121 ASTM, bbls., c.l., refinery	lb.	No prices.	
121-123 ASTM, bbls., c.l., ref'y	lb.	No prices.	
126-128 ASTM, bbls., c.l., ref'y	lb.	No prices.	
fully ref'd, slabs, 122-124 ASTM, loose, c.l., ref'y	lb.	.0695	—
125-127 ASTM, loose, c.l., ref'y	lb.	.0695	—
130-132 ASTM, loose, c.l., refy.	lb.	.0705	—
132-134 ASTM, loose, c.l., ref'y	lb.	.0720	—

FOURTH "FREON"

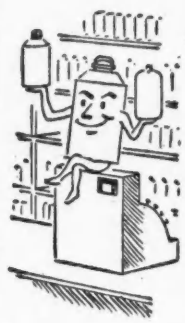
AEROSOL-PACKAGED PRODUCTS

Tells what dealers and consumers think about aerosols . . .
Points up bright future for aerosol manufacturers!

24% more dealers stock aerosols. 77% more people buy now!



Latest "Freon" surveys show that sales of aerosol-packaged products have reached an all-time high. Today, 70% of the dealers interviewed stock aerosols —an increase of 24% over the 1947 figure! And, 47% of consumers say they have purchased aerosols—77% more than did in 1947.



Drug stores main outlets. Low-pressure trend continues!

Drug stores are principal outlets for aerosol-packaged products. But, food stores are rapidly gaining in importance. Hardware and department stores are also listed by consumers as being important sales points. This latest survey shows that 47% of retail dealers report low-pressure aerosols their best sellers; 27% say high-pressure sell best; 26% say they sell about the same.

Insecticides best sellers. But new products show gains!

Dealers report insecticides are still their best-selling aerosols. Others selling well are room deodorants, mothproofers, insect repellents and paints. New products—such as personal deodorants, shampoos and shave creams also are showing substantial sales gains.

97% of customers give aerosols their O.K.!

Today 76% of buyers are completely satisfied with aerosol results, and 21% are partially satisfied—a total of 97% potential re-sales. Customers say they like aerosols, first, because they are easy to use. Other reasons given: they are more effective and quicker acting.

DUPONT
REG. U. S. PAT. OFF.
BETTER THINGS FOR BETTER LIVING
. . . THROUGH CHEMISTRY

"FREON" SAFE

Paraffin, fully refd., slabs, 135-137 ASTM, loose, c.l., ref'y	lb.	.0753- —
Paraffin prices in bags, and ctns., c.l., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.		
Paraformaldehyde, tech. 94-95% powd., dms., c.l., dlvd., N. Y.	lb.	.16½- —
10,000 lbs. to c.l., same basis	lb.	.18 - —
1,000-9,999 lbs., same basis	lb.	.19 - —
less than 1,000 lbs., same basis	lb.	.21 - —
94-95%, powd., dms., c.l., works	lb.	.14½- —
10,000 lbs. to c.l., same basis	lb.	.15½- —
1,000-9,999 lbs., same basis	lb.	.16½- —
less than 1,000 lbs., same basis	lb.	.18½- —
91-92%, flake, fib. dms., c.l., N. Y. delivery	lb.	.14½- —
10,000 lbs., to c.l., same basis	lb.	.16 - —
1,000-9,999 lbs., same basis	lb.	.17 - —
less than 1,000 lbs., same basis	lb.	.19 - —
91-92%, flake, fib. dms., c.l., works	lb.	.12½- —
10,000 lbs. to c.l., same basis,	lb.	.13½- —
1,000-9,999 lbs., same basis,	lb.	.14½- —
less than 1,000 lbs., same basis	lb.	.16½- —
USP, X, fib. dms., c.l., dlvd. N.Y.C.	lb.	.19 - —
10,000 lbs. or more	lb.	.19½- —
1,000 to 9,999 lbs.	lb.	.20½- —
smaller lots	lb.	.23 - .36

Paraldehyde, tech., 98% 55 gals., dms., c.l., works	lb.	.13½- —
l.c.l., works	lb.	.14½- —
tanks, works	lb.	.12½- —
Paranitroanilin, dms., c.l., works, frt. alld.	lb.	.45½- —
l.c.l., frt. alld	lb.	.48½- —
Paranitrochlorobenzene, kgs. works.	lb.	.21 - .22
Paranitrophenol, kgs., works, frt. equald	lb.	.46 - —
Paranitrotoluene, kgs., frt. alld.	lb.	.33 - —
Paraphenetidin, dms., works	lb.	.90 - —
Paraphenylphenol, bgs., c.l., works.	lb.	.33 - —
l.c.l., same basis	lb.	.34 - —
Paraphenylenediamine redistilled, dms., works	lb.	2.30 - 2.80
technical, refined dms., same basis	lb.	1.10 - 1.30
Paratertiarybutylphenol, bgs., c.l., works	lb.	.24½- —
l.c.l., same basis	lb.	.25½- —
Parathion, spray powder, 15%, dealers, tins	lb.	.72 - —
tech., dms., works	lb.	1.50 - 2.50
Paratoluenesulphonamide bbls., works	lb.	.70 - —
Paratoluidin, bbls., frt. alld.	lb.	.61 - —
Pareira brava root, whole, bgs	lb.	.35 - .40
ground, bxs	lb.	.40 - .48
powder, bxs	lb.	.43 - .50
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over	lb.	.39 - —
l.c.l., same basis	lb.	.40 - .67
Passion flower herb, bls	lb.	.45 - .50
Patchouli leaves, bls	lb.	No stocks.
Peanut meal, 45%, sacked, mills	ton.	64.00 - —
Pectin, citrous, NF, powd., bbls	lb.	2.05 - 2.06
tech., powd., bbls	lb.	1.33 - —

Penicillin, crystalline potassium, unlabeled vials, 100,000 units	vl.	.102 - —
200,000 units	vl.	.153- —
500,000 units	vl.	.28 - —
1,000,000 units	vl.	.52 - —
2,000,000 units	vl.	1.00 - —
bulk, sterile, over 25,000,000,000 unit lots 100,000 units.		.04 - —
tablet grade, over 25,000,000,000 unit lots 100,000 units.		.03½- —
procaine, bulk, over 25,000,000,000 unit lots 100,000 units.		.04½- —
sodium, unlabeled, vials 100,000 units	vl.	.10¾- —
200,000 units	vl.	.16 - —
500,000 units	vl.	.30½- —
1,000,000 units	vl.	.57 - —
2,000,000 units	vl.	1.03 - —
bulk over 25,000,000,000 unit lots 100,000 units.		.04½- —
Pennyroyal herb, bls	lb.	.43 - .50
Pentachlorophenol, dms. c.l., works, frt. equald	lb.	.20 - —
l.c.l., same basis	lb.	.23 - .28
truckload, 20,000 lbs., min., same basis	lb.	.20¼- —
Pentaerythritol, tech., bgs., c.l., works	lb.	.34 - —
l.c.l., works	lb.	.35 - .37
Di and tri-isomers (see Dipentaerythritol and Tripentaerythritol).		
Pentane, industrial, tanks, group 3,	gal.	.10½- .11½
Pepper, black, spot, bgs	lb.	1.56 - 1.57
December shipment, bgs	lb.	1.48 - 1.49
January-March shipment, bgs.	lb.	1.33 - 1.34

Pepper, red, Carolina, long bgs	lb.	.30 - .31
Haitian, bgs	lb.	.40 - .41
Hontaka, bgs	lb.	.32 - .33
Louisiana longs, bgs	lb.	.28 - .29
Mexican sports, bgs	lb.	.35 - .36
Mississippi sports, bgs., source Oct. shipment	lb.	.35 - .36
Nigerian, caps, bgs	lb.	.28 - .29
Sierra Leone, bgs	lb.	.42 - .43
Sudanese, small, bgs	lb.	.42 - .43
Turkish, bgs	lb.	.22 - .27
White, bgs	lb.	2.70 - —
December delivery, bgs	lb.	2.50 - —
Peppermint, USP, dom., bls	lb.	.60 - .63
imported, bls	lb	80 90
Pepsin, NF, bulk, containers	lb.	3.90 - —
Perchloroethylene, dms., c.l., or truckload, works	lb.	.11 - —
l.c.l., same basis	lb.	.11¾- —
tanks, same basis	lb.	.10 —
Perchloroethylene, dms., c.l. dlvd. E	lb.	.13½- —
l.c.l., dlvd. E	lb.	.14 - —
tanks, dlvd. E	lb.	.12½- —
Peru, balsam, dms	lb.	1.25 - 1.40
Petrolatum, amber, c.l., dms	lb.	.05⅞- .06
l.c.l., same basis	lb.	.06⅞- .07⅛
cream, dms., c.l	lb.	.07⅜- .07⅛
l.c.l., same basis	lb.	.08⅜- .08⅞
extra amber, dms., c.l	lb.	.06⅛- .06¼
l.c.l	lb.	.06⅞- .07⅛
USP, white, lily, dms., c.l	lb.	.07⅝- —
l.c.l.	lb.	.08⅜- .09¼
snow, dms., c.l.	lb.	.08¼- —
l.c.l.	lb.	.08⅞- .09¾
soft, dms., c.l	lb.	.08 - —
l.c.l.	lb.	.08⅜- .08⅞
yellow, soft, dms., c.l	lb.	.06⅛- —
l.c.l.	lb.	.06¾- —
Petroleum, crude, bulk, at wells, California	bbl.	1.10 2.99
Illinois	bbl.	2.44 2.87
Kentucky	bbl.	2.42 2.83
Louisiana-Arkansas	bbl.	2.08 2.90
Montana	bbl.	1.28 2.775
Oklahoma-Kansas	bbl.	2.16 2.65
Pennsylvania lower field	bbl.	3.82 - —
Upper field	bbl.	4.25 - —
Texas, East	bbl	2.65 —
Gulf coast	bbl	2.38 2.93
North, North-Central	bbl	2.23 2.65
Panhandle	bbl.	2.23 2.65
West	bbl.	2.33 2.65
Wyoming	bbl.	1.28 2.875
Ether, laboratory, 30°-60° C., 10-gal. cns., dlvd. E	gal.	1.50 - —
dms., c.l., group 3	gal.	.26 - —
l.c.l., same basis	gal.	.44 - —
35°-60° C, 10-gal. cans, dlvd. E	gal.	1.50 - —
dms., c.l., Group 3	gal.	.26 - —
l.c.l., same basis	gal.	.44 - —
40°-75° C, 10-gal. cns., dlvd. E	gal.	1.50 - —
dms., c.l., Group 3	gal.	.26 - —
l.c.l., same basis	gal.	.44 - —
90°-160° C, ret. dms., ex tax, f.o.b. San Francisco	gal.	.57 - —
Fuel oil, bunker C, No. 6, California, heavy tanks, refinery	bbl.	1.95 - 2.15
light, tanks, refinery	bbl.	2.00 - 2.10
eastern, tanks, Albany, N. Y.	bbl.	2.50 - —
Baltimore, Md	bbl.	2.18 - —
Boston, Mass	bbl.	2.20 - —
Charleston, S. C.	bbl.	2.13 - —
Jacksonville, Fla	bbl.	2.12 - —
N. Y. Harbor	bbl.	2.15 - 2.23
Norfolk, Va	bbl.	2.18 - —
Philadelphia, Pa	bbl.	2.18 - 2.33
Portland, Me	bbl.	2.23 - —
Providence, R. I.	bbl.	2.175 - —
Savannah, Ga	bbl.	2.13 - —
Diesel, tanks, refinery, California	gal.	.075 - .115
Pennsylvania	gal.	.0875- .10
Furnace, tanks, refinery, Arkansas, No. 2	gal.	.0825- —
No. 3	gal.	.07875- —
N. Y. Harbor, No. 2.	gal.	.091 - .092
Group 3, No. 1	gal.	.0875- .0925
No. 1, straw	gal.	.0875- .0925
No. 2 straw	gal.	.08125- .08625
range	gal.	.0875- .09
Pennsylvania, western, No. 1.	gal.	.105 - —
No. 2	gal.	.10 - .105
No. 3	gal.	.10 - —
Lacquer diluent, California, 170-225 F. b.r., tanks, ex tax, f.o.b. Los Angeles	gal.	.147 - —
250 F. b.r. tanks ex tax, Portland Ore	gal.	.158 —
San Francisco	gal.	.152 —
Seattle Wash	gal.	.158 —
East coast, tanks, N. J. and N. Y. refinery	gal.	.18 - —
group 3, benzol-type tanks refinery	gal.	.13125- .13625
toluol-type tanks refinery	gal.	.12125- .12625
Mineral spirits, California, 170-255 b.r., tanks, ex tax, f.o.b. San Francisco	gal.	.152 - —
205-295 b.r., tanks same basis	gal.	.152 —
245-360 b.r., tanks same basis	gal.	.152 —
305-362 b.r., tanks, same basis	gal.	.142 —
312-400 b.r., tanks, same basis	gal.	.142 —
360-455 b.r., tanks, same basis	gal.	.152 —
East coast tanks N. J. N. Y.,	gal.	.16 - —
group 3, tanks	gal.	.10875- —
tankwagon, Baltimore	gal.	.19½- —
Boston	gal.	.18 - —
Buffalo	gal.	.18½- —
Newark	gal.	.17 - —
New York	gal.	.17 - —
Philadelphia	gal.	.16½- —
Pittsburgh	gal.	.19 - —
Providence	gal.	.18½- —
Rochester	gal.	.20 - —
Syracuse	gal.	.21 - —
Washington, D. C	gal.	.19½- —
Naphtha, cleaners, East Coast, tanks, N. J., N. Y., refinery	gal.	.16 - —
Group 3, tanks	gal.	.11875- —
tankwagon, Newark	gal.	.16½- —
New York	gal.	.17 - —
Philadelphia	gal.	.16 - —
high flash, 140° F, group 3, refinery, tanks	gal.	.13 - .145
200-285 b.r., 37-38° C., mixed anilin pt., tanks, refinery or terminal	gal.	.25½ —
25-26° C., m.a.p., tanks, same basis	gal.	.24 - .30⅛
270-370 b.r., 78-81° C. m.a.p., tanks, same basis	gal.	.29 - —
49° C., m.a.p., tanks, same basis	gal.	.32 - —
26-27° C., m.a.p., tanks, same basis	gal.	.24 - .33
360-400 b.r., 28-32° C., tanks, same basis	gal.	.24 - .30⅛

SURVEY SHOWS GAINING IN ACCEPTANCE

Customers insist on safety. No safer propellent than "Freon"!

Don't take chances! Look at these "Freon" exclusives!

Safety is an important factor in aerosol selling. It is often on the customer's mind when she is buying . . . often makes the difference between a sale and no sale. That's why it's such a definite asset to be able to stress the many safety characteristics of "Freon" propellents! These propellents are nonflammable, nonexplosive, of extremely low-order toxicity . . . harmless to food, furs, flesh, fabrics and finishes. They have no color or taste and are practically odorless.

"Freon"—and only "Freon"—can offer all these safety characteristics *plus* a range of pressures from 1 to 120 lbs. per sq. in. gauge. And "Freon" alone can provide the special solubility characteristics needed for certain ingredients. So take no chances—use only "Freon" propellents!

FREE! *Your own digest copy of this 4th big survey of the aerosol market—the only report of its kind anywhere—together with complete data on "Freon" propellents. Write today: "Kinetic" Chemicals Division, E. I. du Pont de Nemours & Co. (Inc.), Wilmington 98, Delaware.*

Plan to aerosol-package *your* product today!

HERE'S HOW TO GO ABOUT IT:

1. Determine that there is a market for the contemplated product.
2. Develop a stable formulation, including propellent, which can be packaged in a suitable container.
3. Shelf-test the proposed finished-product package before production or sample merchandising is attempted.
4. Have a quantity packaged for test marketing. There are custom loaders who will fill quantities as low as 5,000.

"KINETIC" TECHNICAL SERVICE WILL HELP YOU

As a service to users of "Freon" propellents, Du Pont is ready to assist any manufacturer in entering the aerosol market. This includes aid at every step from market exploration to planning shelf-testing and interpretation of the results.

If you are thinking of entering the aerosol market, be sure to find out how "Kinetic" can be of real help. E. I. du Pont de Nemours & Co. (Inc.), "Kinetic" Chemicals Division, Wilmington 98, Delaware.

FE PROPELLENTS

KINETIC REG. U. S. PAT. OFF.

"FREON" is Du Pont's registered trade-mark for its fluorinated hydrocarbon propellents.

Petroleum Naphtha, V.M.&P.—Potash Caustic

340-410 b.r., 36° C., m.a.p., tanks, same basis gal. .24 - —
32° C., m.a.p., tanks, same basis gal. .24 - —
27° C., m.a.p., tanks, same basis gal. .34½- —
350-425 b.r., 32° C., m.a.p., tanks, same basis gal. .30 - .30½
Naphtha, V.M.&P., tanks, ref'y, California, 245-360 b. r., Los Angeles gal. .147 - —
Portland, Ore. gal. .139 —
San Francisco gal. .152 —
Seattle, Wash. gal. 138 —
East coast, N. J., N. Y., tanks gal. .17 - —
Group 3, tanks gal. .11875- —
tankwagon, Boston gal. .19½- —
Newark gal. .18½- —
New York gal. .18½- —
Philadelphia gal. .18 - —
Pittsburgh gal. .20 - —
Solvent, rubber, California, tanks, ex tax, San Francisco gal. .152 - —
East coast, N. J., N. Y., gal. .17 - —
Group 3, tanks gal. .11875- —
Pennsylvania, western, tanks gal. .1225- —
Stoddard, California, tankwagon, ex-tax, Los Angeles gal. .137 - .163
East coast, N. J., N. Y., tanks gal. .16 - —
Group 3, tanks gal. .11375- —
tankwagon, Boston gal. .18 - —
Newark gal. .17 - —
New York gal. .17 - —
Philadelphia gal. .16½- —
Pittsburgh gal. .19 - —
Syracuse gal. .21 - —

Petroleum sulphonate, 70% sulphonic content, non-ret. dms., c.l., works lb. .2040- —
l.c.l., works lb. .2065- —
tanks, works lb. .1850- —
60-62% sulphonic content, non-ret. dms., works lb. .1865- —
l.c.l., works lb. .1890- —
tanks, works lb. .1675- —
50-55% sulphonic content, non-ret. dms., works lb. .1590- —
l.c.l., works lb. .1615- —
tanks, works lb. .14 - —
Phenobarbital, USP dms., 100 lbs. lb. 4.50 - 4.70
Phenobarbital-sodium, USP, dms. lb. 4.50 - 4.70
Phenol, 90-92% (cresol, 8-10%), dms., c.l., frt. alld. and frt. equald. E. of Rockies. lb. .17¾- .18½
l.c.l., same basis lb. .18½- .19¼
tanks, same basis lb. .16 - .16¾
82-84% (cresol, 16-18%), dms., c.l., same basis lb. .17¾- .18½
l.c.l., same basis lb. .18½- .19¼
tanks, same basis lb. .16 - .16¾
USP, synthetic, dms., c.l., same basis lb. .19 - —
l.c.l., same basis lb. .19¾- —
tanks, same basis lb. .17¼- —
tar, distilled, dms., c.l., same basis lb. .19 - —
l.c.l., same basis lb. .19¾- —
tanks, same basis lb. .17¼- —
Phenolphthalein, USP or yellow, bbls., dms., 2,000 lbs. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17

Phenothiazin, NF, fib. dms., c.l., frt. adjusted lb. .46 - —
over 2,100 lbs., same basis lb. .48 - —
less than 2,100 lbs., same basis lb. .50 - —
Phenylacetaldehyde solution, 50%, bots. lb. 2.45 - 2.70
100%, bots. lb. 4.00 - 4.75
Phenylacetamide, 125-lb. dms., works, lb. lots lb. 1.25 - —
smaller dms., works lb. 1.30 - 1.60
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol).
Phenylalanine dextro laevo, dms., works lb. 27.00 -27.50
Phenyldiethanolamine, dms., c.l., works lb. .35½- —
l.c.l., works lb. .35 - .36½
Phenylethanolamine, dms., c.l., works lb. .67½- —
l.c.l. same basis lb. .68½- —
Phenylethyl acetate, dms. lb. 1.40 - 1.80
Phenylethylphenyl acetate, bots. lb. 3.75 - 4.20
Phenylhydrazin base, CP, bots. lb. 3.00 - 3.07
Hydrochloride, commercial, kgs., works lb. 1.75 - —
CP, bots., works lb. 5.12 - —
Phenylisocyanate, dms., works lb. 2.00 - —
Phenylmethylpyrazolone (see Methylphenylpyrazolone).
Phloroglucinol, CP, fib. dms., works. lb. 15.00 -15.75
commercial, fib. dms., works lb. 6.40 - —
tech., fib., dms., works lb. 9.40 - 9.65
Phosgene, 150-lb. cyls., works lb. .20½- —
Phosphate, defluorinated (see under D)

Phosphate rock, Curacao, Atlantic ports ton. 40.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70%-68%, b.p.l., c.l., same basis long ton. 4.35 - 4.40
72%-70%, b.p.l., c.l., same basis long ton. 5.00 - —
75%-74%, b.p.l., c.l., same basis long ton. 6.00 - —
77%-78%, b.p.l., c.l., same basis long ton. 7.00 - —
finely ground, 65% b.p.l., basis 30% P_2O_5 minimum bulk, c.l., mines short ton. 4.92 - —
68% b.p.l., basis 31% P_2O_5 minimum mines, short ton. 5.20 - —
70% b.p.l., basis 32% P_2O_5 minimum mines, short ton. 5.83 - —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble, 50c. per long ton higher than above quotations.
Tennessee, brown, run of mine, unground, 27-28% P_2O_5, c.l., mines long ton. 6.45 - —
30-29% P_2O_5 c.l., mines long ton. 7.21 - —
Phosphorus, red, amorphous, cs., works lb. .42 - —
dms., works lb. .39 - .40
Yellow, cns. lb. .30 - .37
dms., c.l. lb. .26 - —
Oxychloride, dms., works lb. .14 - .17
Pentasulphide, dms., c.l., works. lb. .12 - —
l.c.l., dms., works lb. .13 - .14
Pentoxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .13 - .14
Sesquisulphide, tins, cs., works. lb. .23 - .29
dms., export lb. .33½- .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - .18
Phthalic annydride, bgs., c.l., works, frt. equald lb. .19 - .20½
l.c.l., same basis lb. .20 - .21½
tanks, same basis lb. .18½- .20
Bbls. ½c. per pound higher.
Phthalimide, bbls., works lb. 1.10 - 1.37
Pichi leaves, bgs. lb. .08 - .10
Picoline (see Alphapicoline and Betapicoline)
Pilocarpine hydrochloride, NF, bots. oz. 5.25 - —
Nitrate, USP, bots., vials oz. 5.10 - —
Pimento, Jamaica, bgs. lb. .24½- .25
Pinetar retort, dms. incl., c.l., works, South lb. .051 - —
l.c.l., same basis lb. .0534- —
whse., N.Y.C. lb. .0678- —
tanks, works, South lb. .041 - —
Pinkroot, bls. lb. 1.75 - 1.90
Piperazine, 85% anh. frt. equald. lb. 1.65 - 1.93
98% dms., same basis lb. 1.75 - 2.60
Piperazine hexahydrate, bots. kilo 12.50 -13.25
Pipsissewa herb (see Prince's pine)
Pitch, burgundy, domestic, dms. inc., works, South, 1 to 4 dms lb. .08 - —
5 to 19 dms lb. .0775- —
10 or more dms lb. .0755- —
whse., N.Y.C., 1 to 4 dms lb. .0892- —
5 to 19 dms lb. .0867- —
20 or more dms lb. .0847- —
Coaltar, 150° F. m.p., bbls., c.l., works ton. 34.00 -37.00
l.c.l., works ton. 37.00 -41.00
Cottonseed, dms., works lb. .08 - .10
Hardwood, paper bgs. c.l., works. lb. .02 - —
Linseed, dms. lb. .06 Nom.
Petroleum (see Asphaltum, Mexican, Texas)
Pine, dms., dms. inc., l.c.l., works, South 100 lbs. 3.75 - —
Soybean, dms., works lb. .05 Nom.
Tall, dms., works lb. .06 - .06½
Plaster of Paris (see Gypsum)
Platinum metal, works oz. 90.00 -93.00
Pleurisy root, bls. lb. .38 - .40
Pokeroot, bls. lb. .18 - .20
Podophyllum resin, NF, dms. lb. 14.70 -15.45
Polyoxyethylene sorbitan monostearate dms., 20,000 lbs., works lb. .42 - —
10,000-20,000 lbs., works lb. .44 - —
smaller lots, works lb. .47 - .49
tristearate, dms., 20,000 lbs., works lb. .42 - —
10,000-20,000 lbs., works lb. .44 - —
smaller lots, works lb. .47 - .49
Polystyrene, colors, special, bgs., over 30,000 lbs. frt alld lb. .30 - .31
20,000-29,999 lbs. same basis lb. .31 - .31½
10,000-19,999 lbs. same basis lb. .31½- .32
200-9,999 lbs. same basis lb. .32 - .32½
standard, bgs., over 30,000 lbs., same basis lb. .31 - —
20,000-29,999 lbs. same basis lb. .31 - —
10,000-19,999 lbs. same basis lb. .31½- —
200-9,999 lbs. same basis lb. .31½- —
crystals, heat-resistant, bgs., over 30,000 lbs., same basis lb. .27 - .28½
20,000-29,999 lbs., same basis lb. .28 - .29½
10,000-19,999 lbs., same basis lb. .29 - .30½
200-9,999 lbs. same basis lb. .29 - .30½
standard, bgs., over 30,000 lbs., same basis lb. .27 - —
20,000-29,999 lbs. same basis lb. .28 - —
10,000-19,999 lbs., same basis lb. .29 - —
200-9,999 lbs., same basis lb. .29 - —
Polystyrene in non-returnable fiber dms. 1½c per lb higher

Pomegranate root bark, bgs. lb. .60 - .65
Poppy flowers, bls. lb. .90 - .95
Seed, Argentine, bgs., afloat lb. .16 - .17½
Czech, bgs. lb. .16 Nom.
Dutch, bgs. lb. .19½- .20
afloat, bgs. lb. .19 - .19½
Polish, bgs. lb. .16 Nom.
Turkish, bgs., afloat lb. .15 Nom.
Potash, caustic, low-chloride, flake, 88% basis 90% KOH, dms e.l., works 100 lbs. 10.00 - —
l.c.l. works 100 lbs. 10.75 - —
liquid, 45%, dms., c.l., works, l.c.l. works 100 lbs. 5.125 - —
tanks, works 100 lbs. 4.30 - —
solid, 90% dms., c.l., works. 100 lbs. 9.40 - —
l.c.l., works 100 lbs. 10.15 - —
regular, flake 88-92%, dms., c.l., works 100 lbs. 8.50 - —
l.c.l. works 100 lbs. 9.25 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 3.875 - —
l.c.l. same basis 100 lbs. 4.65 - —
tanks, same basis 100 lbs. 3.55 - —
solid, 88-92% dms., c.l., works. 100 lbs. 7.90 - —
l.c.l., same basis, works. 100 lbs. 8.85 - —

ALSO THE FINEST
HYDROQUINONE
POTASSIUM ALUM
BORAX
GLACIAL ACETIC ACID
ARMOL
AND OTHER PURITY-TESTED PHOTOGRAPHIC CHEMICALS

Protect your valuable investment in films and finishing equipment by using photographic chemicals that bear the name A. R. MAAS Chemical Company, which are guaranteed pure and uniform in quality. Our research and control laboratories are constantly developing new chemicals and new processes. Your inquiry is invited.

A. R. MAAS CHEMICAL COMPANY
Division Victor Chemical Works
4572 ARDINE STREET • SOUTH GATE, CALIFORNIA

Potassium abietate dms. lb. .08 - —
Acetate, NF, dms. lb. .31 - .36
Bicarbonate, USP, gran. dms lb. .20 - .22
powd., dms lb. .22 - .24
Bichromate, bgs., c.l., works lb. .14 - —
l.c.l., same basis lb. .14¼ - .15
Potassium bichromate in drums ½c. higher.
Bitartrate (see Cream of tartar)
Borate, gran., bbls. c.l., works, ton 212.00 - —
ton lots, ex whse ton 275.00 - —
less ton lots, ex whse ton 280.00 - —
Bromate, bbls., 1,000 lbs. or more lb. .50 - .52
25-200-lb. lots lb. .55 - .57
Bromide, USP, cryst., gran., bbls., kgs lb. .34 - .37
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 9.30 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 7.50 - —
USP, gran., bbls., dms lb. 16½ - .18
powd., bbls., dms lb. .21 - .23
Chromate, tech., bgs. lb. .32 - .36
Chlorate, cryst., dms., c.l., works, lb. .089 - —
l.c.l., works lb. .0915-.1015
powd., dms., c.l., works lb. .094 - —
l.c.l., works lb. .0965-.1065
export, dms., 1 to 10 tons, ex whse lb. .12 - —
NF, gran., dms lb .31 - .33
Chloride, USP, cryst., dms. lb. .26 - .27
gran., dms lb. .20 - .22
powd., dms lb. .29 - .32
Citrate, USP, gran., dms. lb. .37½ - .38½
powder, dms lb. .40½ - .41½
Cyanide, dms., works lb. .52½ - .55
Fluoride, dms., works lb. .24 - —
Gluconate, dms. lb. .75 - .79
Glycerophosphate, 75% solution, cbys lb. 2.15 - 2.25
Guaiacol sulphonate, NF, dms lb. 2.20 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets, jars lb. .33 - —
Hypochlorite, liquid, cbys., dms., works 100 lbs. 3.50 - —
Hypophosphite, NF, ton lots and less, fib. dms. lb. 1.00 - 1.03
Iodide, dms. lb. 2.15 - 2.20
Manure salt, 22% K_2O, bulk, mines unit-ton .21 - —
Metabisulphite, gran., bbls lb. .21 - —
powd., bbls lb. .25 - —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton .42 - —
Trona, Cal. unit-ton .50½ - —
80-51 K_2O, paper bgs., Carlsbad, N. M. ton 25.50 - —
Nitrate (see Saltpeter)
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
purified, dms lb .42 - .44
Perchlorate, dms., c.l., works lb. .13½ - —
l.c.l., works lb. .14 - .15
Permanganate, tech., dms., works, lb. .22½ - .23½
USP, dms., works lb. .24¾ - .25¼
Persulphate, dms., c.l., works lb. .17 - —
Phosphate, tetrabasic, bbls., wks., lb. .13 - .13½
Prussiate, red, kgs lb. .60 - .63
yellow, bbls lb .21 - —
kegs lb. .26 - —
Ricinoleate, tech., bbls lb. .11 - —
Silicate, glass, bgs., c.l., works, 100 lbs. 14.70 - —
l.c.l. 100 lbs. 15.20 - —
solution, 29° Be., ret. dms., c.l., works 100 lbs. 4.50 - 4.55
l.c.l., 5 dms. or more, works 100 lbs. 5.25 - 6.30
30° Be., ret. dms., c.l., works 100 lbs. 4.70 - —
l.c.l., works 100 lbs. 5.20 - —
32.5° Be., ret. dms., c.l., works, 100 lbs. 4.85 - —
l.c.l., works 100 lbs. 5.35 - —
40° Be., ret. dms., c.l., works 100 lbs. 5.35 - —
l.c.l., works 100 lbs. 5.85 - —
40.5° Be., ret. dms., c.l., works 100 lbs. 6.00 - 6.75
l.c.l., 5 dms., or more, works 100 lbs. 6.75 - 7.50
1-4 dms., works 100 lbs. 7.25 - 7.90
Silicofluoride, bbls. works lb .07 - .08
Stannate, dms., frt. alld., E. lb. .810 - .866
Sulphate, agricultural, 90-95% K_2SO_4, bulk, works, basis 90% ton 36.25 - —
NF, cryst., dms lb. .31 - .33
gran., dms lb. .18½ - —
powder, dms lb. .16 - .16½
Sulphocyanide, cryst., NF (see Potassium thiocyanate).
Thiocyanate, NF, cryst., dms. lb. .75 - .81
tech., works lb. .45 - .50
Titanate, ctns., c.l., works lb. .12 - —
5 tons, works lb. .12¼ - —
1 ton or less, works lb. .12½ - .12¾
Potassium-magnesium sulphate, bulk, works, basis 40% K_2SO_4, 18% MgO ton 16.00 - —
Potassium-sodium tartrate (see Rochelle salt)
Potassium-titanium fluoride, fib. dms., works lb. .45 - .50
Potassium-titanium oxalate, bbls., kgs lb. .65 - .70
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½ - .55
Pregnenolone, bots gm 2.50 - —
Acetate, bots gm. 2.50 - —
Prickly ash bark, bls. lb. .25 - .28
Berries, bgs. lb. .70 - .75
Prince's pine herb, bls. lb. .50 - .55
Procaine hydrochloride, USP, dms., contract, 1,000 lbs. or more, works lb. 3.75 - 4.50
spot lb. 4.00 - 5.00
Progesterone, USP, 100 gms., bots gm. 3.75 - —
Propane, commercial grade, tanks, group 3 gal. .04 - —
Propionaldehyde, dms., c.l., works, lb. .28½ - —
l.c.l., works lb. .29½ - —
tanks, works lb. .25 - —
Propyl aldehyde (see Propionaldehyde)
Gallate, dms., ton lots to 100 lb. lots, works lb. 3.90 - 4.40
Parahydroxybenzoate, USP, dms., lb 2.30 - 2.40
Propylene dichloride, dms., c.l. lb. .08½ - .09½
l.c.l. lb. .09½ - .10½
tanks lb. .07 - .08
Oxide, dms., c.l., frt. alld. E. lb. .19½ - .20½
l.c.l., frt. alld., E lb. .20½ - .21½
tanks, frt. alld., E lb. .17½ - .18½
Propyleneglycol, USP, dms., c.l., frt. alld., E. lb. .20¼ - —
l.c.l., same basis lb. .21¼ - —
tanks, same basis lb. .18½ - —
tech., dms., c.l., frt. alld. E. lb. .20¼ - .21¼
l.c.l., same basis lb. .21¼ - .22½
tanks, same basis lb. .17½ - .18½
Methylether, dms., c.l., frt. equald lb. .19¾ - —
l.c.l., same basis lb. .20¾ - —
tanks, same basis lb. .18¼ - —
Propylthiouracil, bots., 50 kilos or more kilo 55.00 - —
smaller lots lb. 55.10 - 55.30
Psyllium seed, black, bgs. lb. .19 - .23
blonde, bgs. lb. .18 - .19
husks, bgs. lb. .65 - .66

Pulsatilla herb, bls. lb. .40 - .50
Pumice, dom., grd. coarse, 0½, 1, 1½, 2, 3 bgs., ton lots, lb. .03⅝ - .04
smaller lots lb. .03⅞ - .04¼
Italian, silk-screen, coarse, bgs., ton lots lb. .05½ - —
fine, bgs., ton lots lb. .04 - —
sun dried, coarse, bgs., ton lots lb. .02½ - —
fine, bgs., ton lots lb. .02½ - —
Pumice in bbls. is ½c. per lb. higher.
Pumpkin seed, bgs lb. .18 .26
Purple lake (see Red)
Pyrethrum concentrate, dewaxed, 20%; for aerosol bombs, dms., works lb 11.00 -11.50
liquid (20 to 1), basis 2 grams pyrethrins, per 100cc., odorless base, dms., works gal. 11.00 - —
30 to 1 base, 3 grams pyrethrins per 100 cc, odorless base, bbls., works gal. 16.30 - —
flowers, fine-grd. 0.9% pyrethrins, bbls., works lb. .47 - —
powder, 1.3% pyrethrins, bbls., works lb. .67½ - —
Pyrethrin, synthetic (see Allethrin)
Pyridin, denaturing, dms., c.l., works, and frt. equald. gal. 2.67 - —
l.c.l., same basis gal. 2.70 - —
ref., 2°, non-ret. dms., c.l., same basis lb. .89½ - 1.04¼
l.c.l., same basis lb. .90 - 1.05
Pyridoxine hydrochloride, 100-gram bots. gram .55 - —
Pyrites, Spanish, c.i.f. Atl. ports long-ton 8.00 - —
Pyrocatechol (see Catechol).

Pyrophyllite, standard, 200 mesh, bulk, c.l., mines ton 11.00 -11.50
230 mesh, bulk, c.l., mines ton 12.00 -12.50
325 mesh, bulk, c.l., mines ton 15.00 - —
No. 3, 200 mesh, bulk, c.l., mines, ton 9.50 - —
insecticide grade, 200 mesh, bgs., c.l., mines ton 12.00 -12.50
rubber grade, 140 mesh, bgs., c.l., mines ton 10.00 -10.50
Standard and No. 3 pyrophyllite in paper bgs., $3 to $3.50 per ton extra.
Pyroxylin, USP, bots lb. 9.54 - —
Scrap, opaque, amber, cs., works, lb. .17 - —
black, cs., works lb. .14 - —
gray, cs., works lb. .13 - —
mixed, mottled, cs., works lb 12 - —
white, china, ivory, cs., works, lb. .17 - —
dense, cs., works lb .16 - —
translucent pastels, cs., works, lb. .17 - —
transparent, colorless, cs., works, lb. .19 - —
colors, cs., works lb. 17 - —
shavings, opaque, amber, cs., works lb. 14 - —
mixed, colors, cs., works lb. 14 - —
white, cs., works lb. .17 - —

Q

Quassia chips, bls lb .08 .09
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., lb. .14¾ .15
Quebracho extract, clarified, liq., 65% tannin, bbls., works, lb. .08 .08½
tanks, same basis lb. .07½ - —
solid, 64% tannin, bgs., c.l., duty extra lb. .09 - —
powd., 70% tannin, bgs., c.l. lb. .15½ - —
ordinary, solid, 63% tannin, bgs., c.l., ex-dock, duty extra lb. .08 5/16 —
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.
Queen of the meadow root, bgs. lb. .20 - .25
Quercitron crystals, bbls., l.c.l lb 33½ —
Extract, liquid, bbls., l.c.l lb 14½ —
solid, bxs lb .28 —
Quicksilver, flasks (76 lbs.) net, flask 125.00 -128.00
Quince seed, bgs lb .90 1.50
Quinidine, NF, V cryst., ens oz 1.90 —
powd., precip., ens oz 1.85 —
Sulphate, USP, ens oz 1.25 - —
Quinine, NF, ens., 100 ozs oz. .70 - —
Bisulphate, USP, ens., 100 ozs oz. .51 - —
Dihydrochloride, USP, ens oz. .70 - —
Ethylcarbonate, NF, ens., 100 ozs, oz. .75 - —
Hydrobromide, NF, ens., 50-oz. ens. oz. .63 - —
Hydrochloride, USP, ens., 100 ozs, oz. .63 - —
Phosphate, NF, ens., 100 ozs oz. .76 - —
Salicylate, NF, ctns., 100 ozs oz. .66 - —
Sulphate, USP, ens., 100 ozs oz. 56½ - —
Quinine-urea hydrochloride, NF, ens oz. .68 - —
Quinolin, dms., c.l., frt. equald lb. .50¾ .51¼
l.c.l., same basis lb. .51¼ .51¾
tanks, same basis lb. .50 - —

R Salt, Paste—Skunk Cabbage Root

R

R salt, paste, dry basis.. dms., frt. alld. lb. .83 • —
Raspberries, dried, bbls lb 1.60 • 1.70
Red, alizarin conc., bbls., dlvd. N. of Tenn. and N. C., E. of Miss. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.60 • —

Prices ½c. per lb. higher dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (Dallas, Ft. Worth, 1¼c.), El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. per lb. higher, dlvd. Pacific coast prices equaled with Chicago, dlvd. Denver, Pueblo, Salt Lake City, Wichita.

Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 3.80 • —
light shade, bbls., same basis. lb. 3.65 • —
medium shade, bbls., same basis lb. 3.75 • —
medium light shade, bbls., same basis lb. 3.70 • —
orange shade, bbls., same basis lb. 3.30 • —
lithopone, deep shade, bbls., same basis lb. 1.85 • 1.90
light shade, bbls., same basis. lb. 1.75 • —
maroon shade, bbls., same basis lb. 2.00 • 2.10
medium shade, bbls., same basis lb. 1.85 • —
medium-light shade, bbls., same basis. lb. 1.80 • —
Red, lithopone, orange-red shade, bbls., same basis lb. 1.70 • —
Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.
Carmine, No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works lb. 1.40 • —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .12½- —
Iron oxide, synth., bgs. lb. .11¾- .12
75%-85% copperas oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O.; Easton, Pa.; E. St. Louis lb. .05¼- .09¼
special, high color, all shades, bgs. lb. .60 • —
Lake C, toner alizarin, bbls., works lb. 1.05 • —
Lithol toner, bbls., works lb. .85 • —
Lithol-rubin toner, alizarin lake, bbls., works lb. 1.40 • —
Maroon, alizarin lake, 25%, kgs., works lb. .40 • .43
toner, bbls., works lb. 1.35 • 1.50
cadmium, deep, bbls., works.. lb. 1.20 • —
regular, bbls., works lb 1.10 • —
Iron oxide, bgs., l.c.l., works lb. .04 • —
MNPT toner, kgs., works lb. 3.25 • —
Maroons in smaller pkgs., 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs., works lb. 2.67 • —
smaller lots, works lb. 2.69 • —
Red metallic, bbls., works lb. .62½- .62¾
Oxide (see Red, iron oxide).
Persian gulf, bgs., works lb. 06¾- 07
Para toner, bbls lb. .85 • .90
Phloxin toner (see Red, eosin toner).
Phosphotungstic, rnouamine Y, kgs., works lb. 4.45 • —
Pink lake, alizarin, bbls., works lb. .20 • .25
Purple lake, kegs lb. 1.35 • —
Rose lake, alizarin, bbls., works lb. .25 • .28
Spanish oxide, bbls., c.l., ex dock. lb. .05¾- —
l.c.l., ex dock lb. .06 • —
ex whse., New York lb. .06½- —
Toluidin toner (MNPT), kgs., works. lb. 1.35 • —
Turkey, bbls., works lb. .14½- —
Tuscan, bbls., frt. equald lb. .24½- .25
Venetian 15% bgs., works lb. .0350- .0375
20% bgs., works lb. .04 • —
25% bgs., works lb. .0450- —
30% bgs., works lb. .0475- —
35% bgs., works lb. .05 • —
40% bgs., works lb. .0525- —
Vermilion, Amer., bbls lb. .32 • —
Quicksilver ctns lb 2.27 • —
Red KB base (see chloro(4)-2-toluidine).
Red Precipitate, NF, powd., fib. dms. lb. 2.62 • —
Red saunders wood powd. bbls lb .50 • —
Rennin, NF, powder lb. 6.25 • —
Resorcinol, resin grade, dms., c.l., works lb. .81 • —
l.c.l., works lb. .82 • —
tech., dms., c.l., works lb. .84 • —
l.c.l., works lb. .85 • —
USP, cryst., dms., works lb. 2.75 • —
powd., dms., works lb. 2.95 • —
Monoacetate, NF, dms lb. 3.25 • 3.45
Rhatany root, bgs lb. 15 • .16
Rhodinol, 5-lb. cns lb.42.00 -45.00
Rhubarb root, China, whole, cs. lb. .90 • .95
powd., bbls lb. 1.00 • 1.25
India, whole, bgs. lb. .30 • .35
powdered, bbls lb. .35 • .40
Riboflavin, USP, bots., dlvd. kilo.125.00 • —
Readily soluble, bots., dlvd. kilo.125.00 • —
Rice bran concentrate, dms., Cedartown, Ga lb. .79 • —
Rochelle salt, USP, gran., powd., dms., 5,000 lbs. lb. .33½- —
smaller lots lb. .34 • .39
Rose flowers, pale, bls lb. .40 • .45
Rosemary flowers, bls lb. 1.55 • 1.65
Leaves, French, bls lb. .12 • .12½
Portuguese, bls. lb. .06¾- .07
Spanish, bls lb. .07½- .07½
Rosin gum (see Naval Stores, Protective Coatings market).
Wood, B, dms., c.l., works, 100 lbs. 4.00 • —
FF, dms., c.l., works 100 lbs. 7.30 • —
G, H, I, dms., c.l., works, 100 lbs. 8.60 • —
K, dms., c.l., works 100 lbs. 8.60 • —
M, dms., c.l., works 100 lbs. 8.60 • —
N, dms., c.l., works 100 lbs. 8.75 • —
WG, dms., c.l., works 100 lbs. 8.85 • —
WW, dms., c.l., works 100 lbs. 9.10 • —
X, dms., c.l., works 100 lbs. 9.20 • —
Rotenone, CP, bbls., works lb.20.00 • —
tech., bbls., works lb.16.50 • —
Rottenstone, bgs., c.l., mines ton.36.00 • —
l.c.l. mines ton.43.00 • —
Rue herb, bls lb .35 • .40
Rutin, 10 kilos, fib. dms. gram. .02 • .02½
smaller lots, fib. dms. gram. .02½- .03½
Ryania, 100% powd., bgs., works lb. .20 • —

S

Sabadilla seed, powd., bbls. lb. .70 • —
activated ground with lime, bbls lb. .45 • —
Saccharin, USP, gran., soluble, dms., 1,000-lb. lots lb. 1.50 • —
smaller lots lb. 1.60 • 1.70
powd., soluble insoluble, dms., 1,000-lb. lots lb. 1.55 • —
smaller lots lb. 1.65 • 1.85
Safflower, Egyptian, bls lb. .65 • .70
Saffron, Mexican, bls lb. 1.10 • 1.20
Spanish, USP, tins lb.22.00 -25.00
Safrol, dms. lb. .95 • 1.10
Sage, Cretan, bls lb. .16 • .17
Cyprus, bls. lb. .10 • .11
Dalmatian, bls. lb. 1.18 • 1.20
afloat, bls. lb. 1.14 • —
English, bls lb. .85 • .86
Greek, fancy, bls lb. No stocks.
Spanish, bls lb. .13 • .13½
Syrian, bls lb. .16 • .16½
Sago flour, bgs lb. .07¾- .08
Sal soda (see Soda sal).
Saligenin, ctns lb 14.00 -25.00
Salol, NF, gran., bbls., kgs. lb. 1.05 • —
fib. dms. lb. 1.07 • 1.08
powdered add 10c higher
Salt, rock, burlap bgs., c.l., works, 100 lbs. 1.09 • —
l.c.l. 100 lbs. 1.30 • —
paper bgs., c.l. 100 lbs. .94 • —
l.c.l. 100 lbs. 1.15 • —
Table, vacuum, common, fine, bgs., c.l., works 100 lbs. 1.09 • —
l.c.l., works 100 lbs. 1.20 • —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton.17.00 • —
Saltpeter, cryst., bbls., 10 tons. 100 lbs.13.90 • —
smaller lots 100 lbs.14.15 -14.40
gran., bbls., 20 tons 100 lbs. 9.25 • —
smaller lots 100 lbs.10.50 -11.00
powd., bbls., 20 tons 100 lbs.10.25 • —
smaller lots 100 lbs.11.50 -12.00
NF, gran., dms lb. 15¾- .17¾
Saltpeter in bags, 25c. per 100 lbs. less than in barrels; in kegs, $1 more.
Sandarwood chips, East Indies, bgs., lb. .65 • .66
powd., dms lb. .75 • .76
Sanguinarine nitrate, bots oz. 4.75 • 5.50
Santonin, NF cryst., powd., cns. kilo. No stocks.
Saponin No. 1, cns lb. 2.45 • —
Sarsaparilla root, dom., bls. lb. .30 • .40
Honduras bls. lb. .40 • .45
Mexican, bls. lb. .28 • .30
Sassafras bark, ord., bls lb. .35 • .40
select, bls. lb. .55 • .60
Savory, French, bls lb. .11 • .11½
Spanish, bls. lb. .10 • .10½
Saw palmetto berries, bgs. lb. .30 • .35
Scammony resin, lump, cns. lb. 1.95 • 2.20
powd., cns. lb. 2.05 • 2.30
Root, bgs lb. 11 • .14
Schaeffer's salt, bgs., frt. alld. lb. .73 • .80
Scopolamine hydrobromide, bots. oz.15.00 -16.00
Hydrochloride, bots oz 84.00 —
Seidlitz mixture, bbls., 5,000 lbs. lb. .30½- —
smaller lots lb. .31 • .33
Selenium, powd., dms., dlvd. lb. 2.25 • —
Senega root, bls lb. 2.50 • 2.60
Senna leaf, Alex., half-leaf, bls. lb. .18 • .20
sifting, bgs. lb. .18 • .20
Tinnevelly, No. 1, bls. lb. .24 • .25
No. 2, bls. lb. .20 • .21
No. 3, bls. lb. .17 • .18
powdered, bls., bxs. lb. .20 • .24
Pods, bls. lb. .30 • .35
Serpentaria root, bls lb. 3.50 Nom.
Sesame seed, Chinese, white, natural, bgs. lb. .15 • .15½
hulled, bgs. lb. .17½- .18
Nicaragua, hulled, bgs. lb. .22½- .27
natural, bgs lb. .18½- .19
Salvadorean, bgs. lb. .15 • .15½
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .53 • —
bbls., 1,000-lb. lots lb. .54 • —
kgs., 1,000-lb. lots lb. .56 • —
refined, bgs., 1,500-lb. lots lb. .63 • —
bbls., 1,500-lb. lots lb. .64 • —
kgs., 1,500-lb. lots lb. .66 • —
Bonedry shellac prices for less than 1,500 lbs., 1c. per lb. higher for all packages.
Lemon, No. 1, bgs lb. .51 • .52
No. 2, bgs lb. .49 • .50
Superfine, bgs., 10 bgs lb. .47 • .48
TN, bgs., 10 bgs lb. .45 • .46
Shellac in 1 to 9 bgs., 1c. more.
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill. works ton.20.00 -30.00
l.c.l., works ton.25.00 -40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton.20.00 • —
l.c.l., works ton.25.00 • —
140 mesh, bgs., c.l., works ton.12.00 • —
l.c.l., works ton.17.00 • —
Tetrachloride, tech., dms., c.l., works lb. .14½- —
l.c.l., works lb. .18½- .20½
Silver bullion, ingots, cs oz. .80 • —
Cyanide, fib. dms., 2,500-oz. lots oz. .71⅝- —
1,000-oz. lots oz. .71⅞- —
500-oz. lots oz. .72⅛- —
100-oz. lots oz. .72⅜- —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .50⅝- —
1,000-oz. lots oz. .51⅞- —
500-oz. lots oz. .52⅜- —
250-oz. lots oz. .52⅝- —
USP granular silver nitrate 4c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. .95 • —
strong, NF, bots., dms., 1,000-oz. lots oz. .90 • —
Simaruba bark, bls lb. .35 Nom.
Skullcap herb, Eastern, bls. lb. .50 • .52
Western, bls lb. .30 • .35
Skunk cabbage root, bls. lb. .35 • .40

SPECIFY V-C CHEMICALS

PHOSPHORIC ACIDS
PHOSPHORUS
CALCIUM PHOSPHATES
DISODIUM PHOSPHATE
TRISODIUM PHOSPHATE
TETRASODIUM PYROPHOSPHATE
SODIUM TRIPOLYPHOSPHATE
SODIUM METASILICATE
LIQUID SODIUM SILICATES
NICOTINE
TETRAETHYL PYROPHOSPHATE

OTHER NEW ORGANIC PHOSPHATE CHEMICALS—on a pilot plant basis—will be announced from time to time

VC CHEMICALS ®

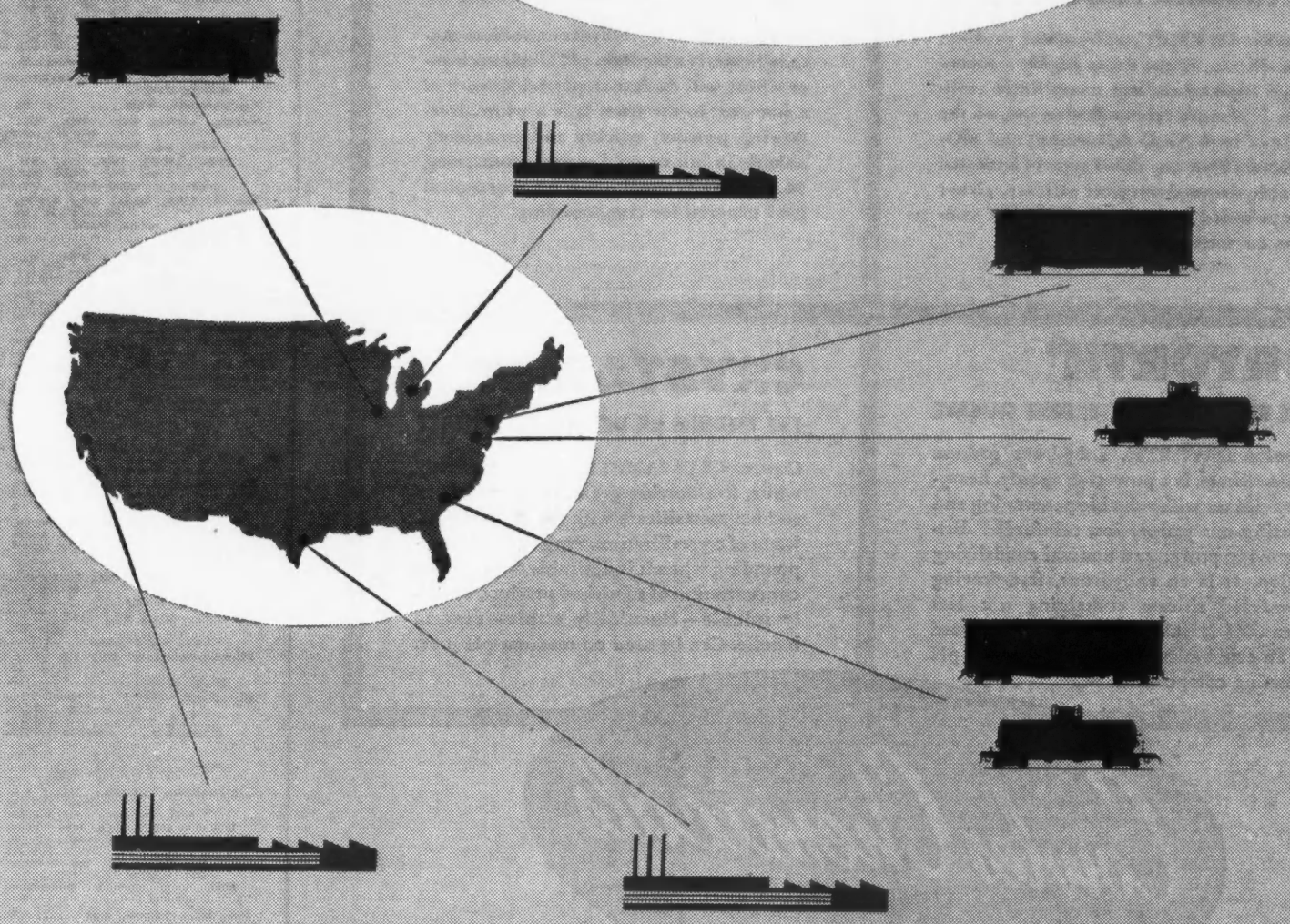
VIRGINIA-CAROLINA CHEMICAL CORPORATION
Chemicals Division: 401 East Main St., Richmond 8, Virginia

Dow Caustic Soda

serves industry

...with unequalled distributing facilities

1. Three producing plants—in Michigan, Texas and California.
2. Caustic Soda Solution bulk tank terminal distributing facilities—Carteret, N. J. and Charleston, S. C.
3. Caustic Soda Solid, Flake and Ground Flake terminal distributing facilities—Chicago, Ill., Charleston, S. C., and Port Newark, N. J.



THE DOW CHEMICAL COMPANY
MIDLAND, MICHIGAN

New York • Boston • Philadelphia • Washington • Atlanta • Cleveland • Detroit • Chicago
St. Louis • Houston • San Francisco • Los Angeles • Seattle
Dow Chemical of Canada, Limited, Toronto, Canada

DOW
CHEMICALS
INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Slate Flour—Sodium Sesquisilicate

Slate flour, bgs., c.l., works....ton 11.00 -12.00
l.c.l., ex whse....ton 20.00 -60.00
Sloe berries, bgs....lb. .24 - .28
Smalt, black, ctns....lb. .11½- —
Blue, ctns....lb. .15½- —
Snakeroot, Canada, bls....lb. .90 - 1.00
Soapbark, bls....lb. .24 - .27
crushed, bls., bbls....lb. .29 - .35
powd., bbls....lb. .30 - .35
Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.60 - —
l.c.l., stock points 100 lbs. 2.85 - 4.62
bbls., c.l., works 100 lbs. 2.15 - —
l.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.30 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.50 - —
l.c.l., stock points 100 lbs. 2.75 - 4.52
bbls., c.l., works 100 lbs. 2.05 - —
l.c.l., stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.20 - —
Caustic, flake, powd., 76%, dms., c.l., works 100 lbs. 3.75 - —
l.c.l., stock points 100 lbs. 4.95 - 6.77
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.55 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.65 - —
70%, sellers' tanks, works, dry basis 100 lbs. 2.65 - —
rayon-type, tanks, works, dry basis 100 lbs. 2.75 - —
solid, 76%, dms., c.l., works 100 lbs. 3.35 - —
l.c.l., stock points 100 lbs. 4.55 - 5.05
Sal, bgs., c.l., works 100 lbs. 1.40 - —
l.c.l., works 100 lbs. 1.70 - —
Soda-lime, USP dms....lb. .23 - .25
Sodium acetate, anhyd., dms., works, lb. .11½- .13
NF, powder, bbls., works....lb. .09½- .10½
Alginate, refined, water soluble, bbls., works lb. .79 - —
semi-refined, bbls., works lb. 46 - —
NF white, powd., dms., works, ton lots lb. 1.25 - —
smaller lots....lb. 1.30 - 1.65
Aluminate, 20,000 lbs. or more, bgs. 100 lbs. 8.50 - —
smaller lots....100 lbs. 9.50 - —
Antimoniate, bbls., c.l., dlvd. E. lb. .27½- —
l.c.l., dlvd....lb. .28½- —
Arsenate, dealers, dms., c.l., works, lb. .12 - —
Arsenite, dealers, dms., works, lb. .13½- .15¼
solution, dms., works gal. .60 1.00
Benzoate, tech., bbls., dms., 100 lbs. or more lb. .35 - .39
USP, bbls., dms., 100 lbs. or more lb. .42 - .46
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.50 - —
l.c.l., works....100 lbs. 3.15 - —
powd., bgs., c.l., works 100 lbs. 2.10 - —
l.c.l., works....100 lbs. 2.75 - —
Bichromate, bgs., c.l., works lb. .10½- —
l.c.l., same basis....lb. .10¾- .11¼
Sodium bichromate, in drums, ¾c. higher
Bifluoride, bbls., c.l., works, frt. equald lb. .13½- —
l.c.l., same basis....lb. .14½- —
Bisulphate, bulk, c.l., works, 100 lbs. 2.00 - —
dms., c.l., works....100 lbs. 2.65 - 3.85
l.c.l., works....100 lbs. 3.05 - 3.65
Sodium bisulphite, powd., bgs., c.l., works 100 lbs. 3.90 - —
l.c.l., works....100 lbs. 4.15 - —
solut. 35° bbls., c.l., works 100 lbs. 1.40 - —
l.c.l., works....100 lbs. 1.80 - 4.30
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, jars, dms....lb. 7.00 - 8.00
Carbonate, anhydrous (see Soda ash).
crystalline, monohydrated, bgs., c.l., works 100 lbs. 2.65 - —
l.c.l., works....100 lbs. 3.05 - —
Chlorate, cryst., dms., c.l., works, lb. .08 - —
l.c.l., works....lb. .08¼- —
powd., kgs., works....lb. .09½- —
Chloride, tech. (see Salt).
USP, dms....lb. .21 - —
Chlorite, tech., dms., works lb. .75 - —
Chloroacetate, tech., dms., c.l., works lb. .20 - —
l.c.l., dms., works lb. .21 - .22
Chromate, dms., c.l., works....lb. .12¼- —
l.c.l., same basis....lb. .12½- .13¼
Citrate, anhyd., dms....lb. .60 - .65
USP VIII, anhyd., dms....lb. .23 - .28
USP XIII, gran., dms....lb. .28 - .32
Sodium citrate, USP XIII, powd., prices ½c. higher
Cyanate, dms., 1,000 lbs., works, lb. 1.10 - —
smaller lots, works....lb. 1.25 - —
Cyanide, 96-98%, dms....lb. .17 - .19
Diacetate, 33-35% acidity, bbls., works lb. .13½- .15
anhydrous, dms., works....lb. .15½- .16
Fluoride, white, 90%, bbls., c.l., works lb. .10¾- —
l.c.l., works....lb. .11 - .11¼
95%, bbls., c.l., works....lb. .10¾- —
l.c.l., works....lb. .11 - —
Sodium fluoracetate, monobasic, 8-oz. tins, 50 to a case, works, lb. 12.00 - —
2 to 25 tins to case, works lb. 12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb. 16.50 -21.00
tribasic, ton lots....lb. 11.00 - —
Formate, bgs., c.l., dlvd....100 lbs. 7.10 - —
l.c.l....100 lbs. 8.15 - —
Gluconate, dms....lb. .83 - .85
Glutamate, monobasic, dms., c.l., dlvd lb. 1.60 - —
smaller quantities, dlvd....lb. 1.63 - —
Glycerophosphate, NF, cryst., bbls, lb. 1.80 - 1.95
powder, bbls....lb. 1.85 - 2.00
solution, 75%, cbys....lb. 1.06 - 1.21
Hydride, dms., works....lb 2.00 3.00
Hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .23½- —
l.c.l., frt. alld....lb. .24 - —
Hydroxide, tech. (see Soda, caustic).
USP, pellets, dms lb .23 - —
Hypophosphite, NF, ton lots or less, dms lb. .95 - .98
Hyposulphite, tech., bgs., works, 100 lbs. 4.00 - —
l.c.l., same basis....100 lbs. 4.40 - 6.90
photo grade, bgs, c.l., works, 100 lbs. 4.00 - 4.25
l.c.l., same basis....100 lbs. 4.40 - 7.15
pea, bgs....100 lbs. 4.50 - —
gran., bgs., c.l., works...100 lbs. 5.00 - —
Sodium, hyposulphite crystals in bbls. 50c. higher.
Use Sodium thiosulphate)
Iodide, USP, bots., dms....lb. 2.69 - —
Lactate, edible, 50%, dms., cbys., works lb. .19 - —
60%, dms., cbys., works lb. .24 - —
tech., 50%, dms., cbys., works, lb. .13 - .14
Metaborate, octa-hydrate, gran., bgs., c.l., works...ton 78.50 - —
l.c.l., ex whse....ton 124.50 -129.50
tetrahydrate c.l. bbls. works ton 199.50 - —
Sodium metaborate in bbls. $2 per ton higher.
Metal, tanks, works....lb. .16 - —
bricks, dms., works....lb. .17 - .18
Metanilate, bbls., frt. alld....lb. .57 - .62
Metasilicate, anhyd., bgs., c.l., works...100 lbs. 4.60 - —
l.c.l., works....100 lbs. 6.10 - —
dms., c.l....100 lbs. 4.85 - —
l.c.l....100 lbs. 6.35 - —
pentahydrate, bgs., c.l., works, frt. equald...100 lbs. 4.00 - —
l.c.l., bgs., works...100 lbs. 4.40 - 6.90
bbls., c.l., works....100 lbs. 4.80 - —
l.c.l., works....100 lbs. 5.20 - —
Molybdate, anhyd., bbls., works, lb. .60 - —
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls....lb. .66 - .70
Nitrate, crude, dom., bgs., c.l., works...ton 48.50 - —
bulk, c.l., works lb 45.00 - —
imp., 100-lb. bgs. c.l., Atl Gulf, Pac whse ton 51.50 - —
bulk, c.l. same basis ton 48.00 - —
Nitrite, USP, bbls., c.l., works, frt. equald lb. .07¼- —
l.c.l., same basis lb. .08¾- —
USP, dms....lb. .21 - —
Orthosilicate, anhyd., dms., c.l., works...100 lbs. 6.00 - —
l.c.l., works....100 lbs. 7.60 - —
hydrated flake bbls. c.l. works, 100 lbs. 4.25 —
l.c.l. works 100 lbs. 5.50 5.75
Oxalate, neut., bgs., works lb. .09½- —
Para-aminobenzoate, dms., 1,000 lbs. or more lb. 3.50 - —
smaller lots....lb. 3.65 - —
Para-aminosalicylate, dms., 1,000-lb. lots lb. 5.75 - 7.50
smaller lots....lb. 5.80 - 7.80
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .21½- —
l.c.l., same basis lb .22½ .24½
pellets, bgs. c.l. same basis lb. .21 - —
l.c.l., same basis lb. .22 - .24
Pentachlorophenate, powd., bgs., c.l., same basis lb. .20 - —
l.c.l., same basis lb. .21 .23
Truckloads of pentachlorophenate of 20,000 lbs. min. available at ¼c. per lb. over carlot prices.
Perborate, USP, tech., bbls., c.l., works lb. .19¾- —
l.c.l., works....lb. .20¾- .21¾
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .19 - —
l.c.l., same basis....lb. .19½- .20
Phenolsulphonate, USP IX, gran., dms lb. .38 .39
powd., dms....lb. .41 - .42
Phosphate, dibasic, anhydr., bgs., c.l., works...100 lbs. 7.15 - —
l.c.l., works....100 lbs. 7.55 - —
cryst., bgs., c.l., works 100 lbs. 4.00 - —
100 lbs. 4.00 - —
l.c.l., works 100 lbs. 4.40 - —
USP, dried, powd., bgs., dms, works lb. .19 - .20½
monobasic, anhyd., bgs., c.l., works 100 lbs. 7.80 - —
l.c.l., works 100 lbs. 8.20 - —
tribasic, cryst., bgs., c.l., works, frt. equald...100 lbs. 4.15 - 5.30
l.c.l., same basis...100 lbs. 4.55 - 8.20
Sodium phosphates in bbls. 40c. higher than bgs
USP (see Sodium phosphate dibasic)
Prussiate, yellow, bgs....lb. .12½- —
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs. 10.50 - —
ferric, dms., 1,500 lbs., works, lb. .30 - —
smaller lots, works lb. .31 - —
tetrabasic, anhy., bgs., c.l., works, frt. equald...100 lbs. 7.30 - —
l.c.l., frt. equald...100 lbs. 7.70 - —
Salicylate, USP, dms....lb. .63 - —
Sesquicarbonate, bgs., c.l., works, 100 lbs. 2.10 - —
l.c.l., dlvd. zone 1....100 lbs. 3.85 - 4.25
zone 2....100 lbs. 4.11 - 4.51
zone 3....100 lbs. 4.40 - 4.70
zone 4....100 lbs. 5.11 - 5.50

Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb. E. of 98° N. C. S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.

bbls. c.l. works 100 lbs 2.45 —
Sesquisilicate, anhy. dms., c.l., works...100 lbs. 5.50 - —
l.c.l., works....100 lbs. 7.00 - —

DRYMET*

THE ECONOMICAL DETERGENT SILICATE

Cowles DRYMET, anhydrous sodium metasilicate, is the most highly concentrated form of sodium metasilicate available. It is more economical to use, on the basis of both Na_2O (alkalinity) and SiO_2 (silicate) than any other type of hydrated or anhydrous detergent silicate, either compounded or by itself. DRYMET contains no water of crystallization.

DRYSEQ*

THE ALL-PURPOSE DETERGENT SILICATE

Cowles DRYSEQ, anhydrous sodium sesquisilicate, is a medium pH alkaline cleaner which will do fast, dependable work at a low cost to the user. It is a white, free-flowing powder, quickly and completely soluble in hot or cold water—containing 56.75% Na_2O—making it an economical base material for compounding.

DRYORTH*

THE HEAVY-DUTY DETERGENT SILICATE

Cowles DRYORTH, anhydrous sodium orthosilicate, is a powerful, speedy, heavy-duty cleaner with valuable penetrating and wetting-out properties, reinforced dirt-removing power and unusual emulsifying action. It is an anhydrous, free-flowing powdered silicate containing not less than 60% Na_2O, which may also be used as an economical constituent of high pH cleaning compounds.

CRYSTAMET*

THE MEDIUM pH DETERGENT SILICATE

Cowles CRYSTAMET is a pure, perfectly white, free-flowing granular pentahydrate sodium metasilicate with the normal 42% water of crystallization. Suggested for compounding when it is desirable to lower the concentration of a finished product. Readily soluble—chemically stable—easy to handle. Can be used on medium pH jobs.

Cowles Chemicals

We'll be glad to send you our DRYMAT File Folder containing complete technical information and suggested formulations.

* REG. U. S. PAT. OFF.

COWLES CHEMICAL COMPANY

HEAVY CHEMICAL DEPARTMENT • CLEVELAND 3, OHIO

Sodium silicate, liquid, 40°, turbid., dms., c.l., works..100 lbs. 1.20 - —
l.c.l., works.....100 lbs. 1.55 - 1.95
tanks, works.....ton.19.00 - —
52°, turbid., dms., c.l., works 100 lbs. 2.00 - —
l.c.l., works.....100 lbs. 2.40 - —
tanks, works.....ton.37.00 - —
solid, bgs., works.....ton.55.00 - —
Silicofluoride, bbls., c.l., works..lb. .05 - —
l.c.l., works.....lb. .0454- .079
Stannate, dms., works, frt alld. E lb. .762 - .812
Stearate USP, anhyd. bbls., work lb. .51 - 56
Sulphanilate, bbls., works lb. .22 - —
Sulphate NF VII dried gran., dms lb. .14½ .16½
tech anhyd. ngs. c.l. works 100 lbs. 2.00 - —
c.l., works 100 lbs. 2.35 2.60
cryst (see Glauber's salt)
USP cryst bbls lb 17 .19
gran bbls lb 17 17½
Sulphide, flake, bbls., c.l., works, frt. equald..100 lbs. 5.00 - —
l.c.l., same basis..100 lbs. 5.40 - 5.90
fused, bbls., c.l., works, frt. equald..100 lbs. 4.50 - —
l.c.l., same basis...100 lbs. 5.00 - —
Sulphite, anhyd., by-product powd. bgs. c.l. frt equald 100 lbs. 2.50 2.75
l.c.l. same basis 100 lbs. 3.25 3.75
regular powd. bbls. c.l., works 100 lbs. 6.75 - —
l.c.l. same basis 100 lbs. 7.25 - —
crystals, bgs., c.l., works 100 lbs. 4.80 - —
l.c.l., works.....100 lbs. 5.20 - 6.45
bbls. c.l., works.....100 lbs. 4.50 - —
l.c.l., works.....100 lbs. 4.90 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate bbls..... lb. .51 - .61
Sulphydrate, flake, 70-72%, dms., works, c.l. lb. .06¼- —
l.c.l., works..... lb. .06¾- —
liquid, 36-40%, basis 100%, tanks, works ton.100.00 - —
Tetrasulphide, liquid, 40%, dms., c.l., works..lb. .03¼- —
l.c.l., works.....lb. .03¾- —
Thiocyanate CP dms lb. .55 .65
tech. dms. works lb .30 -
Thiosulphate tech. (see Sodium hyposulphite).
USP cryst. bbls lb .10 .12
Titanate, ctns c.l., works .... lb. .10 -
5 tons works lb. .10¼ -
1 ton or less, works lb. .10½ .11
Trichloroacetate, dms lb. .46 .55
Tripolyphosphate, bgs. c.l. works, frt. equald .....100 lbs. 7.65 - —
l.c.l., same basis.....100 lbs. 8.05 - —
Tungstate tech. kgs., dlvd. East lb. 1.50 - —
Sodium-ammonium phosphate, bbls., works, frt equald lb .23 - —
Sodium carboxymethylcellulose (See CMC
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, c.l., dms., dlvd. lb. .24½- —
l.c.l., same basis..... lb. .25 - —
Sodium-sulpha drugs (see Sulpha name).
Sodium titanium fluoride, fib. dms., c.l., works lb. .16½- —
c.l. works lb. .17½- .20
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works lb. .28 - —
less 1,000 lbs. same basis lb. .30 - —
Solvent naphtha coaltar tanks, works gal. .31 - .34
high-flash, tanks, works.. gal. .31 - .34
petroleum, 100°F., tanks, Baytown, Tex. gal. .31 - —
Bayonne gal. .35 - —
150°F. flash, tanks, Baytown, Tex gal. .31 - —
Sorbitan monostearate, fib. dms., 20,000 lbs., works lb. .31 - .32
10,000 to 20,000 lbs., works lb. .33 - .34
smaller lots, works..... lb. .36 - .39
tristearate, fib. dms., 20,000 lbs. works. lb. .31 - —
10,000 to 20,000 lbs., works. lb. .33 - —
smaller lots, works..... lb. .36 - .38
Sorbitol cryst. pellets dms., c.l., works lb .30 -
ton lots to 5 tons works. lb. .32 .33
powd. dms ton lots to 5 tons, works lb. .38 .39
solution, commercial, aqueous, dms., c.l., works lb. .24¼- —
ton lots, works..... lb. .25¼- —
less ton lots, works... lb. .26 - —
tanks, works..... lb. .23½- —
regular, 70%, aqueous, dms., c.l., works lb. .16¼- —
ton lots, works lb. .17 - —
less ton lots, works lb. .17½- —
tanks, works lb .15½- —
Soybean meal, 41% bulk, Decatur ton.62.50 - —
50%, same basis .... ton.72.00 - —
protein, chemically isolated, 40,000 lbs., dlvd lb. .24 - —
20,000 lbs., same basis... lb. .24¼- —
smaller lots, same basis lb. .24½- .28
mechanically refined, bgs., 40,000 lbs., same basis. lb. .0600- —
20,000 lbs., same basis lb. .0615- —
smaller lots, same basis lb. .0630- —
Sparteine sulphate ens ..... oz. .85 1.25
Spearmint leaves, bls..... lb. .60 - .65
Spikenard root, bls ..... lb. .36 - .40
Spruce extract, liq., reg., tanks, works lb. .01¾- —
powd. super bgs. c.l. works, lb. .05¼ —
Squaw vine leaves, bls..... lb. .30 - .40
Squill red tortified powd. bbls. boxes lb. 1.60 - —
White, bls..... lb. .12 - .14
powd bbls bxs lb. 16 18
St Ignatius beans bgs lb No stocks
St. John's bread, edible, bls. ....lb. .11 - .13
Stainless steel flake, dry, dms., works lb 1.50 —
paste dms. works lb 1.25 —
Stannous chloride (see Tin chloride, stannous).
Star root (see Ictonias root).
Stargrass root (see Aletris root).
Starch, corn, pearl, paper bgs. c.l., 100 lbs. 6.37 - —
Chicago .....100 lbs. 5.72 - —
l.c.l. .....100 lbs. 6.52 - —
powd., paper bgs., c.l....100 lbs. 6.48 - —
Chicago .....100 lbs. 5.83 - —
l.c.l. .....100 lbs. 6.63 - —
Prices for corn starch in cotton bags, 25c. per 100 lbs. higher.
Potato, Idaho, bgs., c.l., works lb. .05 - —
Maine, bgs., c.l., works.... lb. .05 - —
l.c.l., spot..... lb. .07½- .07¾
Rice, bgs. ..... lb. .10¾- .11
Sweetpotato bgs., c.l..... lb. No stocks.
Wheat, bgs. ..... lb. .0660- .0710
Stavesacre seed bgs ..... lb. .60 .61
Stearin oleo (see Oleostearin).
Stillingia root bls. ..... lb. .35 .38
Stoneroot bls ..... lb. .07½- .08
Storax USP cs ..... lb 1.50 1.60
Stramonium leaves, bgs, ...lb. .20 - .22
Seed bgs lb. .20 .21
Streptomycin hospitals vials gram. .60 —
wholesalers vials gram .48 —
Strontium bromide, NF, ens. dms. lb. .77 - —
Carbonate 90% dms ..... lb. .15½- .16½
Strontium chloride, tech., bbls. lb. .22 - .24
Chromate, bbls. works lb. .50 —
Iodide, jars, 25 lbs ..... lb. 3.37 - —
Nitrate, bbls., c.l., works.....lb. .1025- —
l.c.l., works .....lb. .1145- —
Oxalate, obls works lb 42 44
Salicylate, NF, dms.....lb. 1.65 - —
Sulphate air-floated 90% 325 mesh bgs. works ton.56.70 - 66.15
Strontium-calcium sulphide phosphorescent dms. works lb 2.50 2.85
Strophanthin NF bots ..... oz.39.00 —
Strophanthus seed, Kombe, bgs lb 3.00 3.25
Strychnine NF powd. ens. 100 ozs. oz. 1.25 - —
Phosphate NF 100 ozs oz. 1.14 - —
Sulphate USP powd. ens. 100 ozs oz 1.00 —
Styrene monomer, dms. c.l. works lb. .19¼- —
l.c.l., works..... lb. .20¼ —
tanks, works ..... lb. .18 —
Styrolyl acetate bots lb 2.50 3.10
Sucrose octa acetate, benat, bbls l.c.l., works lb. .65 - —
tech., bbls., l.c.l., works... lb. .60 - —
Sugar coloring (see Caramel coloring
Sugar of milk (see Milk sugar)
Sulphabenzamide dms lb 4.25 4.60
Sulphabenzamide-sodium dms lb 4.25 4.60
Sulphadiazin USP crystals, free flowing dms lb.11.25 -11.75
microcrystals, 99% not over 10 microns, dms lb.10.60 -11.10
powder lb.10.25 -10.75
Sulphadiazin-sodium, USP granules, free flowing dms lb.12.25 12.75
powder lb.11.25 -11.75
Sulphaguanidin USP, dms ..... lb 4.50 5.00
Sulphamerazin USP micro crystals 99.9% not over 10 microns, dms lb.10.65 -11.15
powder, dms lb.10.25 -10.75
Sulphamerazin-sodium USP dms., lb 11.25 -11.75
Sulphamethazine, micro crystals, dms. lb. 8.90 - 9.40
powder, dms ..... lb. 8.50 - 9.00
Sulphanilamide, USP, crystals, free flowing, dms lb. 1.40 1.60
microcrystals, dms.....lb. 1.70 - 1.90
powder, dms ..... lb. 1.30 1.50
Sulphaniliamidoquinoxaline veterinary, dms lb. 8.05 8.25
Sulphapyridin NF powd. bots. tins lb 7.00 7.50
Sulphapyridin-sodium powd., bots., dms lb 7.50 8.00
Sulphathiazole USP crystals free flowing, dms lb. 4.00 - 4.50
micro crystals 99.9% not over 10 microns, dms lb. 3.85 - 4.15
powder, dms..... lb. 3.50 3.80
Sulphathiazole-sodium USP dms. lb. 3.50 3.80
Sulphur, commercial, flour, bgs., mines..100 lbs. 2.05 - —
bbls., mines .....100 lbs. 2.20 - —
lump, bgs., mines .....100 lbs. 1.70 - —
bbls., mines ..... 100 lbs. 2.00 - —
crude, bulk, c.l., mines, contract long ton.21.00 -22.00
f.o.b. vessels, Gulf ports, export long ton.25.00 - —
domestic and Canada long ton.22.50 -23.50
refined, flowers, USP, bgs., mines. 100 lbs. 3.60 - —
bbls. ..... 100 lbs. 4.75 - —
flour, light, bgs., mines..100 lbs. 3.35 - —
bbls., mines ..... 100 lbs. 4.25 - —
lump, bgs., mines .....100 lbs. 2.90 - —

Sodium Silicate—Sumac Leaf

Sulphur, refined, rolls, bgs., mines. 100 lbs. 3.35 - —
bbls., mines .....100 lbs. 3.80 - —
salt block, bgs., mines 100 lbs. 3.10 - —
virgin block, bbls., mines 100 lbs. 3.05 - —
rubbermakers, com'l, regular, bgs., mines..100 lbs. 2.25 - —
bbls., mines .....100 lbs. 2.40 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.25 - —
bbls., mines ..... 100 lbs. 3.40 - —
refined, bgs., mines .....100 lbs. 2.35 - —
bbls., mines ..... 100 lbs. 2.95 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.45 - —
bbls., mines ..... 100 lbs. 3.80 - —
10% pine tar treated, bgs., mines 100 lbs. 3.65 - —
washed, NF, bot ..... lb. .31 - —
Sulphur dichloride, dms., c.l., works, lb. 3½ frt. equald.... lb. .03½- —
l.c.l., same basis ..... lb. .04¼- —
tankcars, same basis ..... lb. .03¼- —
Monochloride, 55-gal. dms., c.l., frt. equald lb. .03¼- .03½
l.c.l. same basis lb 04¼ —
tanks, same basis..... lb. .03 - .03¼
Dioxide liquid com'l, cyls., works lb. 09 —
multi unit cars works lb 0335- —
tanks, works lb 045 —
refrigeration, cyls., l.c.l., dlvd lb. .20 - .36
Sumac bark, 28%, grd., bgs., ex-dock..ton.80.00 Nom.
Extract, No. 1, bbls., 25%..... lb. .12½- —
No. 2, bbls., 25%..... lb. .11 - —
crystals, bbls ..... lb. .44 - —
stainless, bbls ..... lb. .14 - —
Leaf, 28% grd., bgs., ex-dock, short ton.84.00 - —

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for Glass...
...you get the ultimate in quality—the kind of quality you would expect from America's leading producer of alkalies. But in addition, you get the fast, dependable delivery service which can only come from a company having more than one plant . . . and over 200 local stock points from coast to coast. You also get Solvay's exclusive Technical Service . . . men specially trained in the glass industry.
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AMMONIUM BICARBONATE
SODIUM NITRITE
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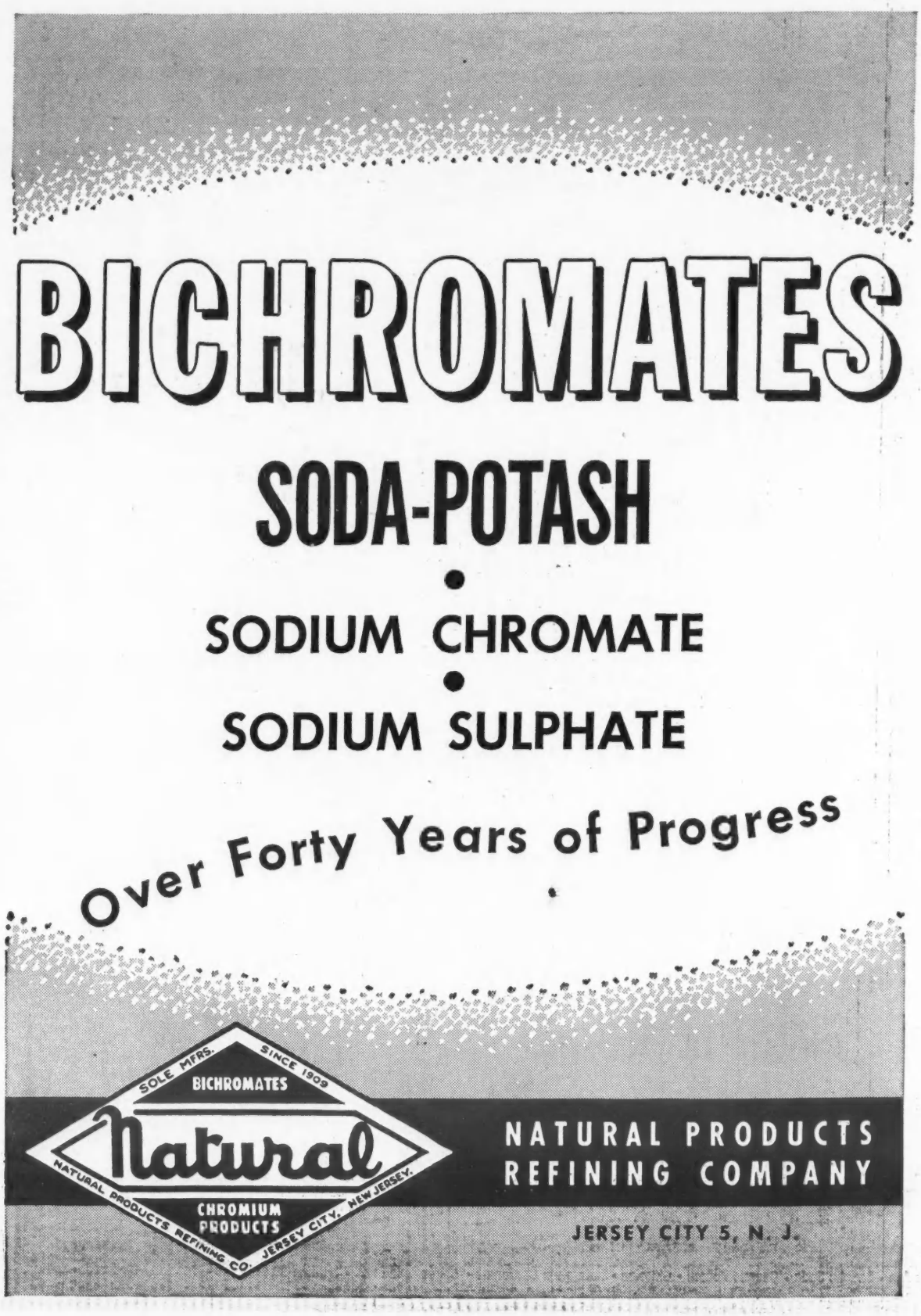
Nytron • Ammonium Bicarbonate • Para-dichlorobenzene • Ortho-dichlorobenzene • Monochlorobenzene • Methanol • Ammonium Chloride • Formaldehyde

Superphosphate—Trimethylamine

Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, Baltc unit-ton. .81 - —
Carteret, N. J. unit-ton. .76 - —
triple, 48% or more, a.p.a., pulv., bulk, East Tampa, Fla. unit-ton. .84 - —
Prices on 48% triple superphosphate in other states and D. C. are per unit-ton plus frt charges from E. Tampa, Fla. Superphosphate, gran., 2c. per unit-ton higher than pulverized.
Sweet basil, California, bgs. lb. 1.15 - 1.20
imported, bgs. lb. 1.00 - 1.20
Californian, bgs. lb. 1.15 - 1.20

T

2,4,5-T, dms., c.l., works lb. 1.60 - —
l.c.l., works lb. 1.65 - —
Isopropyl ester, dms., c.l., works. lb. 1.70 - —
l.c.l., works lb. 1.75 - —
Talc, dom. ordinary, grd., Calif., bgs., c.l., works ton 25.00 -35.00
Vermont, bgs., c.l., works ton 14.00 - —
l.c.l., works ton 17.50 - —
fibrous, New York, off-color, grd., bgs. c.l., works ton 24.00 - —
l.c.l. ton 26.50 -28.00
98.5-99.5% 325 mesh, bgs. c.l., works ton 25.00 - —
l.c.l., works ton 27.00 - —
tmp. Canada grd. bgs. c.l. mines ton 12.50 -35.00
Tallow, edible, dms., c.l. lb. .18 - —
inedible, extra, loose, c.l., dlvd lb. .15½- —
fancy, loose, c.l., dlvd lb. .15¾- —
special, loose, c.l., dlvd lb. .15 - —
sulphonated, 25%, dms. lb. .09 - .09½
50%, dms. lb. .11½- .12
Tamarind, W. I. bbls. lb. .10 - .15
kegs keg. 10.00 - —
Tankage, animal feeding, 9-11% ammon., bulk unit-ton. 8.50 - —
Chicago unit-ton. 9.00 - —
Tansy leaves, bls. lb. .30 - .35
Tapioca flour high grade, bgs. lb. .07½- .07¾
medium grades, bgs. lb. .06¾- .07
low grades, bgs. lb. .06¼- .06¾
Java, bgs lb. No stocks.
Tar acid oil, 15-18%, dms., c.l., frt. equald. gal. .50 - —
l.c.l., same basis gal. .52 - —
tanks, same basis gal. .40 - —
25-28%, dms., c.l., same basis. gal. .56½- —
l.c.l., same basis gal. .58½- —
tanks, same basis gal. .46½- —
50-53%, dms., c.l., same basis. gal. .72½- —
l.c.l., same basis gal. .74½- —
tanks, same basis gal. .62½- —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tarragon herb, bgs. lb. .45 - .50
Leaves, bgs lb. .75 - .80
Tartar emetic, tech., gran. or powd., bbls., kgs. lb. .56 - —
dms. lb. .57 - .58
USP, powd., bbls., dms., kgs. lb. .61 - .62
Terpin hydrate, com'l, bbls., c.l. lb. .24½- —
l.c.l. lb. .25 - .25½
NF, cryst., bbls., dms. lb. .75 - —
powd., bbls., dms lb. .80 - —
Terpineol, Alpha (see A).
com'l, dms., c.l., South lb. .13½- —
l.c.l., South lb. .14 - —
tanks, South lb. .13 - —
prime, dms. lb. .45 - .55
Terpinglycol ether, dms., c.l., works. lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .19 - —
Terpinyl acetate, extra, cns., dms lb. .60½- .70¼
prime, dms. lb. .39 - .50
Terra alba (see Gypsum).
Testosterone, USP, 100 gms., bots. gm. 3.25 - —
Propionate, USP, 100 gms., bots., gm. 3.25 - —
Tetrachloroethane, dms., works lb. .08 - .08½
Tetrachloroethylene, USP, 55-gal. dms., works lb. .20½- .21½
smaller dms., works lb. .23½- .25
tech. (see Perchloroethylene).
Tetraethyl orthosilicate, dms., works. lb. .70 - —
Pyrophosphate, 40% cns., dms., works lb. .80 - —
Tetraethylenepentamine, dms., c.l., works lb. .51½- —
l.c.l., works lb. .52 - —
tanks lb. .50 - —
Tetrapotassium phosphate (see Potassium pyrophosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb. 12.50 -15.00
sulphate, 99% bots., dlvd lb. 10.50 -13.00
Theobromine, fib. dms. lb. 5.75 - 6.00
Salicylate, fib. dms. lb. 5.17 - —
with sodium acetate, USP, dms. lb. 4.80 - —
Sodio-salicylate, fib. dms. lb. 4.05 - —
Theophylline, anhyd., or USP, 100-lb. dms. lb. 5.75 - 6.00
Thiamine hydrochloride, USP, bots., 100 grams kilo. 160.00 - —
Mononitrate, bots., 100 grams kilo. 160.00 - —
Thiocarbanilide, dms. lb. .40 - .42
Thiodiphenylamine (see Phenothiazine).
Thiouracil, dms., works lb 5.50 - 5.60
Thiourea, tech., dms., c.l., works lb. .44 - —
l.c.l., works lb. .46 - —
Thorium nitrate, cs., works lb. 3.50 - —
Threonine, dextro - laevo, bots., 100 grams. 115.00 - —
Thyme, French, bgs. lb. .18½- .19
Spanish, bls. lb. .08½- .09
Thymol, kgs. lb. 3.75 - 3.80
Iodide, NF, dms. lb. 8.02 - 8.12
Timbo root (see Cube root).
Tin chloride stannous, anhyd., dms., works lb. 1.09 - 1.10
Crystals, hydrous, bgs., bbls., works lb. .89½- —
Metal lb. 1.45 - —
Oxide, bbls. lb. 1.39 - —
Sulphate, stannous, bbls. lb. 1.18 - 1.20
Tetrachloride, anhyd., dms. works. lb. .79 - —
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd. lb. .21 - .21½
l.c.l., dlvd. lb. .22 - .22½
chalk resistant, bgs., c.l., dlvd. lb. .21 - .21½
l.c.l., dlvd. lb. .22 - .22½
regular, bgs., c.l., dlvd. lb. .21 - .21½
l.c.l., dlvd. lb. .22 - .22½
rutile, natural, granular, bgs., c.l., works lb. .04¼- —
5-ton lots works lb. .04½- .05¼
milled, bgs., c.l., works lb. .04¼- —
5-ton lots, works lb. .04¾- .05½
non-chalking, bgs., c.l., dlvd., E lb. .23 - .23½
l.c.l., dlvd. E lb. .24 - .24½
Hydride, cns., works lb. 7.00 - 8.00
Pigment, calcium-rutile, base, bgs., c.l., dlvd. lb. .08 - .08½
l.c.l., dlvd. lb. .08½- .09
Titanium dioxide and pigment in bbls., ¼c. higher; Pac. coast c.l., dlvd., l.c.l., ex whse, ½c higher
Tetrachloride, CP, 55-gal. dms lb. .54½- —
smaller pkgs., works lb. .57½- —
technical, dms., works lb. .34½- —
smaller pkgs., works lb. .37½- —
Surinam cs lb. 1.00 - 1.15
Tolu balsam, cns., dms. lb. 4.65 - 5.00
Toluene (see Toluol)
Tolidin base, distilled, kgs. lb. 1.30 - —
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa. gal. .32 - —
Birmingham dist. gal. .30 - —
Chicago dist. gal. .33 - —
Cleveland dist. gal. .32¾- —
Geneva, Utah gal. .26 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa. gal. .30 - —
Lackawanna, N. Y. gal. .33 - —
Lone Star, Tex. gal. .31 - —
Lorain, Ohio gal. .31 - —
Minequa, Colo gal. .32 - —
Philadelphia, Pa. gal. .33½- —
Pittsburgh dist. gal. .30 - —
Sparrow's Point, Md. gal. .32 - —
Syracuse, N. Y. gal. .30½- —
Terre Haute, Ind. gal. .33½- —
Wyandotte, Mich. gal. .33 - —
Youngstown, Ohio gal. .30½- —
Petroleum, industrial 2°, tanks, works:—
Albany, N. Y. gal. .33 - —
Bayonne, N. J. gal. .33 - —
Baytown, Tex. gal. .31 - —
Chicago, Ill. gal. .33 - —
Detroit, Mich. gal. .33 - —
Philadelphia, Pa. gal. .33 - —
Providence, R. I. gal. .33 - —
Wood River, Ill. gal. .33 - —
Tolylene di-isocyanate, dms., works. lb. 4.00 - 4.50
Tonga, 50% bark and vine, bls. lb. .80 - .96
Tonka beans, Angostura, cks. lb. 1.75 - 1.80
Brazilian, cs lb. 1.00 - 1.15
Totaquine, 100-oz. lots, cns. oz. .42 - —
Toxaphene, dms., c.l., works lb. .23 - —
truckloads, works lb. .23 - —
ton to truckloads, works lb. .26 - —
less than ton lots, works lb. .29 - —
Triacetin, dms., dlvd. lb. .51½- .52½
Tributyl citrate, tech., dms. lb. .35½- —
smaller containers lb. .71 - —
Phosphate, dms., c.l., frt. alld lb. .56½- —
l.c.l., same basis lb. .57½- —
smaller containers lb. .61½- —
Tributylamine, dms., c.l., frt. alld lb. .71¾- —
l.c.l., same basis lb. .72¾- —
tanks, same basis lb. .70 - —
Trichlorobenzene, dms., c.l., works, frt. alld. lb. .12½- —
l.c.l., frt. alld lb. .13½- —
tanks, frt. alld lb. .11 - —
Prices in the West, 1¾c. higher.
Trichloroethane, dms., c.l., works. lb. .13 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Trichloroethylene, dms., c.l., or truckload, works, frt. equald. lb. .11 - —
l.c.l., same basis lb. .11½- —
tanks, same basis lb. .10 - —
Trichloroethylene, dms., c.l., dlvd. E lb. .12½- —
l.c.l., dlvd. E lb. .13½- —
tanks, dlvd. E lb. .11 - —
Tricholine citrate, 65% solut., ret., cbys., works, frt. adjusted lb. 2.10 - 2.15
Tricresyl phosphate, coaltar, dms., c.l., dlvd. lb. .37 - .37¼
l.c.l., dlvd lb. .38 - .38¼
tanks, dlvd lb. .35 - .35¼
petroleum, dms., c.l., dlvd lb. .37 - .37¼
l.c.l., dlvd lb. .38 - .38¼
tanks, dlvd lb. .35 - .35¼
Triethanolamine, dms., c.l., frt. alld. E lb. .26¼- —
l.c.l., same basis lb. .27¼- —
tanks, same basis lb. .24½- —
Triethylamine, dms., c.l., works, frt. alld. E lb. .44 - —
l.c.l., same basis lb. .43 - —
tanks, same basis lb. .41¼- —
Triethyl citrate, tech., dms. lb. .27 - —
refd., dms lb. .71 - —
smaller containers lb. .96 - —
Phosphate, dms., works, c.l. lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethyleneglycol, dms., c.l., frt. alld., E lb. .23¼- —
l.c.l., same basis lb. .24¼- —
tanks, same basis lb. .21½- —
Triethylenetetramine, dms., c.l., works lb. .41½- —
l.c.l., works lb. .42 - —
tanks lb. .40 - —
Trimethylamine, 25%-40%, dms., c.l., works, frt. equald, 100% basis, lb. .38 - —
l.c.l., works, frt. equald, 100% basis lb. .38½- —
tanks, works, frt. equald., 100% basis lb. .43 - —



Trimethylhexanol, dms., c.l., works, lb. .29 - —
l.c.l., works lb. .29½- —
tanks, works lb. .27½- —
Tripentaerythritol, bgs., l.c.l. works, lb. .37½- .39½
Triphenyl phosphate, bbls., c.l., frt. equald. lb. .35 - —
l.c.l., frt. equald lb. .36 - —
Triphenylguanidine bbls., works lb. .90 - —
Tripoli air-floated, bgs., c.l., works, lb. .017½ - —
double-grd., bgs., c.l., works lb. .015 - —
single-grd., bgs., c.l., works lb. .015 - —
Tripropyleneglycol, dms., c.l., frt. alld. lb. .25½- —
l.c.l., frt. alld. lb. .27½- —
tanks, frt. alld. lb. .23½- —
Trisodium fluoroacetate (see sodium fluoroacetate tribasic).
Trisodium phosphate (see Sodium phosphate, tribasic).
Trypsin, pharmaceutical, 1:80 dms., works lb. 5.00 - —
Tryptophane dextro-laevo, fib ctns., works kilo. 207.00 -242.00
Tuba root (see Cube root).
Tungsten metal powd. 99.9%, dms., works lb. 5.75 - 6.00
Turmeric root, Alleppey, bgs. lb. .34 - .35
Haitian, bgs. lb. .10 - .10¼
Jamaica, bgs. lb. .10½- .11
Madras, bgs. lb. .15 - .17
Turpentine, gum (see Naval Stores Protective Coatings market).
Wood, dest.-dist., dms., extra, c.l., works, South gal. .59 - —
l.c.l., same basis gal. .60 - —
l.c.l., whse gal. .70 - —
steam-dist., dms., incl., c.l., works gal. .50 - —
l.c.l. works South gal. .56 - —
ex whse., NYC gal. .76 - —
tanks, works gal. .42 - —
Tyrothricin, bots gram 1.00 1.10

U

Urethane, USP, dms. lb. 1.50 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Uranium oxide, black, bgs lb 2.55 - —
yellow, kgs. lb 1.65 - —
Urea, dom. 46% N bgs. c.l. wks lb. .04¾- —
l.c.l., works lb. .05¼- —
42% N, bulk, c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla. S. Dak., 1ex. and east ton. 99.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars Belle, W. Va ton. 115.00 - —
C and D grades, tankcars same basis ton. 113.50 - —
37 grade, tankcars same basis ton. 137.50 - —
Uva ursi leaves, bls. lb. .08 - .10

V

Valerian root, Belgian, NF, bls. lb. .38 - .40
Valine, dextro-laevo, dms., works lb. 21.00 -27.50
Valonia beards, bgs., ex dock ton. 79.00 -80.00
Cups, bgs., ex dock ton. 56.00 - —
Extract, powd. bgs. ex dock, duty extra lb. .09½ Nom.
Vanadium pentoxide CP bgs., cns., works lb 7.00 —
tech dms. works lb 1.00 1.06
Vanilla beans, Bourbon, tins lb. 3.75 - 4.25
Mexican, cuts, tins lb 6.50 6.75
whole, tins lb 7.25 Nom.
Tahiti, cs. lb 2.75 3.25
Vanillin, ex eugenol, tins, 25 lbs. lb 5.50 - —
smaller lots lb. 5.55 - 5.65
ex guaicol, tins, 25 lbs lb 3.00 —
smaller lots lb 3.05 3.15
ex lignin, tins, 25-lb. lots lb 3.00 —
smaller lots, tins lb 3.05 3.15
Vinyl acetate, 55-gal. dms., c.l., works lb. .19 - —
l.c.l., works lb. .19½- —
tanks, works lb. .18 - —
Butylether, normal, tech., dms., c.l. works lb. .28 - —
l.c.l. works lb. .30 - —
tanks, works lb. .27 - —
Ether (see Ether, divinyl).
Ethylether, tech., dms., c.l., wks. lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Isobutylether, tech., dms., c.l., works lb. .28 - —
l.c.l. works lb. .30 - —
tanks, works lb. .27 - —
Methylether, cyls., works lb. .30 - —
tanks works lb. .27 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroethane).
Vinylpyridin, ref. dms. works lb 1.50 - —
Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in neutral vegetable oil 400,000 or 1,000,000 D units per gm. bots., lots of 10 billion USP units 1,000,000 units. .02 - —
lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A, natural, acetate, 200,000 to 400,000 A units per gm., bots., cns., dms., lots of 500 million units or more, 1,000,000 units. .16 - —
less than 500 million units, 1,000,000 units. .20 - —
over 400,000 A units per gm., bots., cns., dms., lots of 500 million units or more 1,000,000 units. .17 - —
lots of less than 500 million units 1,000,000 units. .21 - —

Prices above are based on the USP XIII method of conversion E x 1894.

Vitamin A, natural, acetate, 200,000 to 400,000 A units per gm., bots., cns. dms., lots of 500 million units or more, 1,000,000 units. .17 - —
lots of less than 500 million units 1,000,000 units .21 - —
Vitamin A, natural, acetate, over 400,000 A units per gm., bots., cns., dms., lots of 500 million units or more, 1,000,000 units. .16 - —
less than 500 million units, 1,000,000 units. .22 - —

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

A, natural, concentrates (see Oil, fishliver).
A, synthetic, acetate, 1,000,000 A units, per gm. 1,000,000 units. .18 - —
A, synthetic, palmitate, 800,000 A units per gm., frt. adjstd. 1,000,000 units. .18 - —
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxin hydrochloride).
B_{12} vials 25 100 and 500 milligram lots milligram. .45 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fishliver, Calciferol and Viosterol).
D_2 (see Calciferol).
Vitamin E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
P-P (see Acid, nicotinic, and Nicotinamide).
H (see Biotin).
Violet, methyl toner (see Blue, methylviolet toner).
V.M.P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls. lb. 1.75 - 1.80
Tree bark, bls. lb. .75 - .90
Warfarin, 0.5%, dms., 50 lbs., f.o.b. N. Y. or Chicago lb. 1.95 - —
25-49 lbs., same basis lb 2.05 - —
5-24 lbs., cns., same basis lb 2.15 - —
truckloads, 50-lb. dms. lb. 1.65 - —
Wattle bark, fair average, or E. Afr., bgs., ex dock ton. 71.50 -72.50
merchantable, bgs., ex dock ton. 67.00 - —
extract, liquid, 35% tannin, bbls., works lb. .08 - .08½
solid, E. Africa, 61% tannin, bgs., ex dock, duty extra. lb. .0770- .0780
S. Africa, 62% tannin, ex dock, duty extra lb. .0770- .0780
Wax amorphous (see Wax, microcrystalline)
Bayberry, bgs., spot lb. .44 - .45
Bees, bleached, USP, bricks, cs. lb. .71 - .73
slabs, bgs. lb. .70 - .72
crude, African, bgs. lb. .58 - .60
Brazilian, bgs. lb. .60 - .62
Central American, bgs. lb. .58 - .60
refined, yellow, bricks, cs. lb. .64 - .66
slabs, bgs lb. .62 - .64
Candelilla, crude, bgs. lb. .60 - .62
refined, bgs. lb. .66 - .68

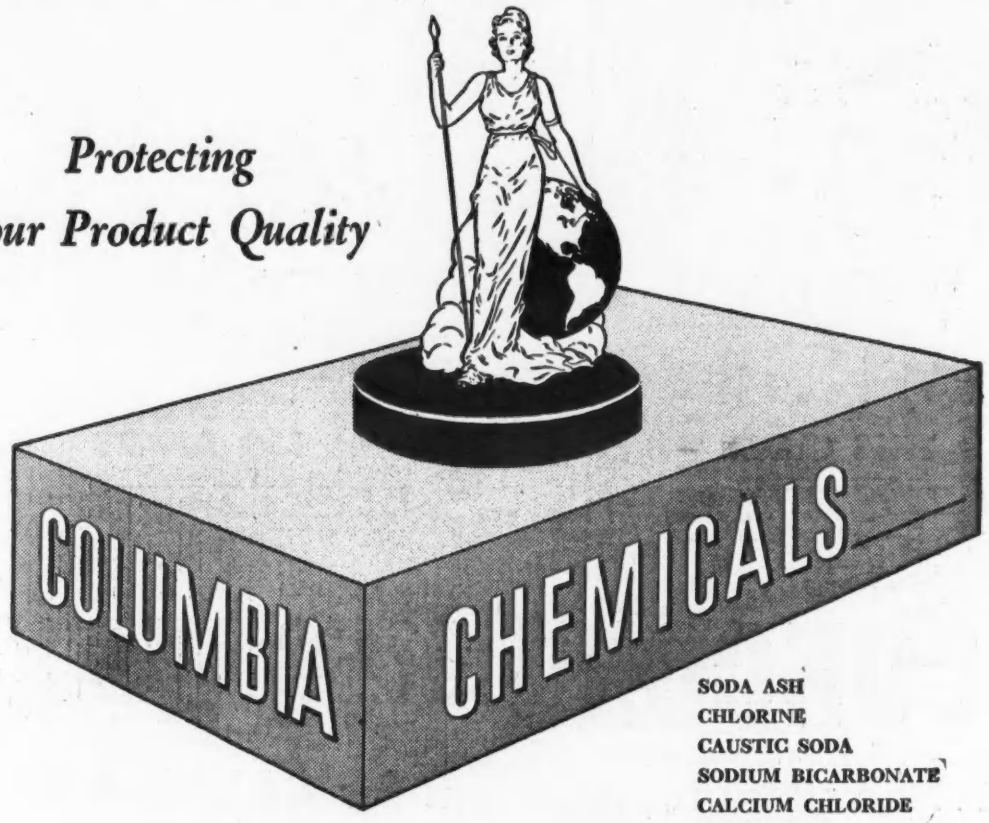
Powdered candelilla, 20 mesh, 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, bgs., ton lots. lb. No stocks.
North Country, No. 2, ton lots. lb. 1.03 Nom.
No. 3, crude, bgs., ton lots. lb. 1.00 - 1.03
refined, bgs., ton lots lb. 1.05 - 1.07
yellow, No. 1, bgs., ton lots lb. 1.10 - 1.12
No. 2 lb. 1.08 - 1.10

Powdered carnauba price differentials same as powdered candelilla.

Trimethylhexanol—Wax Microcrystalline

Wax, japan, bgs. lb. .58 - .60
Microcrystalline, 170°-175° m.p., ASTM, amber ctns., 20,000 lbs. group 3, works lb. .14 - —
Less than 20,000 lbs., same basis lb. .15 - —
black, ctns., 20,000 lbs., same basis lb. .12½- —
Less than 20,000 lbs., same basis lb. .13½- —
white, ctns., 20,000 lbs., same basis lb. .25 - —
Less than 20,000 lbs., same basis lb. .26 - —
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
Less than 20,000 lbs., same basis lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
less than 20,000 lbs lb. .15½- —
white, ctns. 20,000 lbs., same basis lb. .27 - —
Less than 20,000 lbs., same basis lb. .28 - —
190°-195° m.p., ASTM, amber, basis lb. .20½- —
Less than 20,000 lbs., same basis lb. .21½- —
black, ctns., 20,000 lbs., same basis lb. .19 - —
Less than 20,000 lbs., same basis lb. .20 - —
white, ctns., 20,000 lbs., same basis lb. .33½- —
Less than 20,000 lbs., same basis lb. .34½- —



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The same thoughtfulness and care that go into the manufacture of Columbia chemicals also are carried on throughout packaging, shipping and delivery.

Skilled personnel, conveniently located plants, accurate attention to detail, and experienced technical assistance are other advantages favorable to Columbia customers.

Check with Columbia on your next chemical requirements. You'll find it pays in many ways. Pittsburgh Plate Glass Company, Columbia Chemical Division, Fifth at Bellefield, Pittsburgh 13, Pennsylvania.

SODA ASH
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CAUSTIC SODA
SODIUM BICARBONATE
CALCIUM CHLORIDE
CAUSTIC ASH
MODIFIED SODAS
SODA BRIQUETTES (Iron Desulphurizer)
PHOSFLAKE (Bottle Washer)
SILENE EF (Hydrated Calcium Silicate)
CALCENE T (Precipitated Calcium Carbonate)
HI-SIL (Hydrated Silica)
PACIFIC CRYSTALS (Sodium Sesquicarbonate)
BORAX
PARA-DICHLOROBENZENE
ORTHO-DICHLOROBENZENE
MONO-CHLOROBENZENE
BENZENE HEXACHLORIDE
PERCHLORETHYLENE
MURIATIC ACID
PITTCHLOR

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PAINT • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Wax, Montan—Zinc-Formaldehyde Sulphoxalate

Wax montan, dom., black, raw lb. .25 - .25½
refined lb. .31 .32
imported, Bohemian, bgs lb. .15½- .17
German, bgs lb. .15½- .17
Ouricury, refined, bgs., ton lots lb. .86 - .87
Paraffin (see P.)
Spermaceti, blocks, cs lb. .28 - .31
cakes, cs. lb. .29 - .32
Sugar, cane, crude, imp., bgs lb. No stocks.
refined, dom., slabs, works lb. .69 - .74
imp., bgs., N Y lb. .49 - .50
White lead (see Lead, white).
White pine bark, rossed, bls lb. .18 .20
White precipitate USP powd. dms 50 lbs. lb. 2.90 - —
Whiting, limestone dry grd. 99.5% 325 mesh bgs. c.l. works. ton 6.00 -10.00
smaller lots works ton 6.50 15.00
wet-grd., bgs., c.l. works ton 10.00 -30.00
smaller lots works ton 21.00 -35.00
Paris white, bgs., c.l. ton 24.00 -31.00
l.c.l. whse ton 25.00 -40.00
Precipitated, bgs. c.l ton 18.00 -20.00
l.c.l. ton 25.00 -35.00
Wild cherry bark thick, natural, bls lb .06 .07
thin, natural, bls. lb. .16 - .18
rossed, bls. lb. .18 - .20
Wild indigo root bls lb .30 .31
Wild yam root bls lb .16 .17
Witch hazel leaves, bls. lb. .23 - .25
Woodflour 40 mesh bulk, c.l., works, East ton 32.00 - —
l.c.l. same basis ton 40.00 - —
60 mesh, bulk c.l. same basis ton 37.00 - —
l.c.l., same basis ton 45.00 - —

Woodflour, 80-100 mesh, bulk, c.l., same basis ton 40.00 -45.00
l.c.l., same basis ton 50.00 -55.00
Woodflour in bgs extra, returnable.
Woolfat (see Lanolin).
Wormseed, American, bgs. lb .13 .14
Levant, bgs. lb 4.50 5.00
Wormwood leaves, bls lb .35 - .45

X

Xanthorrhiza root bls lb .28 .30
Xylene (see Xylol)
Xylenol, cryst., 56°-58° C. m.p., ret. dms. c.l. works frt equald lb. .193 - —
l.c.l. same basis lb. .196 - —
tanks, same basis lb. .18 - —
45°-47° C, dms., c.l., frt. equald. lb. .153 - —
l.c.l. same basis lb. .156 - —
tanks, same basis lb. .14 - —
fractions, over 7° C., b.p., except meta, dms., c.l., same basis gal. 1.31 - —
l.c.l., same basis gal. 1.34 - —
tanks, same basis gal. 1.20 - —
Meta fraction, over 7° C., dms., c.l., same basis gal. 1.46 - —
l.c.l., same basis gal. 1.49 - —
tanks, same basis gal. 1.35 - —
Xylidins, mixed, dms. lb. .39 - .50
Xylol, coaltar, industrial, tanks, works—
Bethleham, Pa gal. .33 - —
Birmingham district gal. .30¼- —
Chicago district gal. .33½- —
Xylol, coaltar, industrial, tanks, works, Cleveland district, gal. .33 - —
Geneva, Utah gal. .25 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa gal. .31 - —
Lackawanna, N. Y gal. .33 - —
Lone Star, Tex gal. .31 - —
Lorain, Ohio gal. .31 - —
Minequa, Colo gal. .34 - —
Philadelphia, Pa gal. .33 - —
Pittsburgh district gal. .30 - .33
Sparrows Point, Md gal. .33 - —
Syracuse, N. Y gal. .30½- —
Terre Haute, Ind gal. .35 - —
Wyandotte, Mich gal. .33 - —
Youngtown, Ohio gal. .30½- —
Petroleum, indust., 10°, tanks, works:—
Albany, N. Y gal. .33 - —
Bayonne, N. J gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Detroit, Mich gal. .33 - —
Philadelphia Pa gal. .33 - —
Providence, R. I gal. .33 - —
Wood River, Ill gal. .33 - —

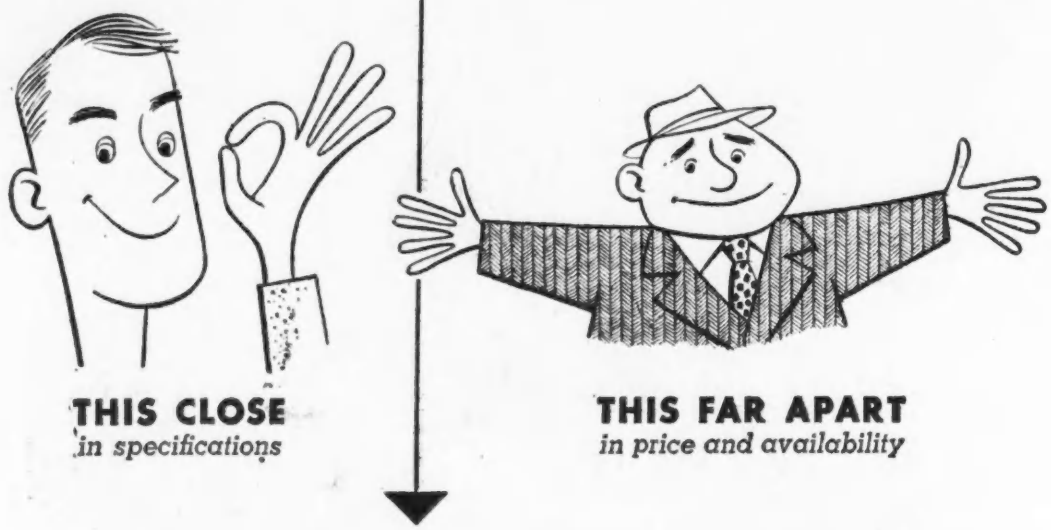
Y

Yara yara, cns lb. 2.25 2.30
Yeast, brewer's dry, USP, 50 B units per gram, 100-lb. dms. lb. .46 - —
90 B units per gram, 100-lb. dms. lb. .51 - —
200 B units per gram, 100 lb. dms. lb. .55 - —
300 B units per gram, 100 lb. dms. lb. .59 - —

Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Penn. and N. C., E. of Miss. including Davenport, Minneapolis, Rock Island, St. Louis. St Paul lb. 2.80 - —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below
Benzidin, bbls., dlvd lb. 1.91 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 3.05 - —
Lithopone, all shades, bbls., frt. alld. E. of Rockies lb. 1.32 - —
Cadmium yellows, Los Angeles and San Francisco, ex whse l.c. per lb higher.
Chrome, CP, bbls., dlvd. N. Penn. and N C E of Miss. including Davenport, Minneapolis, Rock Island lb. .30 - .31
Dlvd Ala., Fla. Ga. La. (Shreveport) 1¼c. higher; Miss., N C., S. C., Penn., Dallas, Tex., 1¼c higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex., 2c higher; Cedar Rapids, Des Moines Kansas City Lincoln, Omaha, St Joseph 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo Salt Lake City Wichita prices are equalized with Chicago
Hansa, bbls., same basis as chrome lb. 1.91 - 2.15
Primrose, bbls., same basis lb 1.90 2.10
Iron oxide, natural, bgs., c.l., works lb. .0141- 0250
l.c.l., works lb. .0166- 0275
French type, bgs. c.l. lb. .04½- —
l.c.l. lb. .04¾- —
Peruvian type bgs., c.l. lb. .0135- .0210
synth., bgs., c.l., works lb. .09½- —
l.c.l., works lb. .09¾- —
Mercury oxide, bbls., 1,000-lbs. lb. 2.67 - —
smaller lots lb. 2.69 - —
Ocher American golden, bgs., works lb. .01¼ 02¾
Zinc, bbls. same basis as chrome. lb. .23 - .29
Yellow dock root, bls lb. .16 - .25
Yellow xanthorrhiza (see Xanthorrhiza)
Yerba santa leaves, bls lb .28 .30
Yohimbine hydrochloride, vls oz. 4.75 - 5.25

Z

Zein, bgs., 36,000 lbs., works lb. .32 - —
1,000 lbs. to 36,000 lbs. works lb. .34 - —
smaller lots, works lb. .37 - —
Zinc acetate, tech., bbls., dms, works, lb. .28 - .30
NF, dms. lb. .41 - —
Borate, bgs., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd. E lb. .19½- —
Carbonate, purified, powd., dms. lb. .20 - —
tech., rubbermakers', bgs., works, lb. .10¾- .11¼
precipitated, powd., dms lb. .26 - —
Chloride, etch., fused, dms., c.l., works, 100 lbs. 8.70 - —
l.c.l., works 100 lbs. 9.10 - —
gran., bbls., c.l., works 100 lbs. 9.45 - —
l.c.l., works 100 lbs. 9.85 - —
solution, 50%, dms., c.l., works 100 lbs. 4.75 - —
l.c.l., works 100 lbs. 5.35 - —
tanks, works 100 lbs. 4.10 - —
NF, gran., dms lb. .42 - —
Chromate see Yellow, zinc).
Cyanide, bgs., works lb. .457 - .477
Dust, c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
Fluoride, bbls., works lb. .40 - —
Hydrosulphite, dms., c.l., frt. alld, lb. .19¾- —
l.c.l. lb. .20¼- —
Iodide, NF, jars lb. 4.65 - —
Laurate, bbls lb. .45 - .46
Metal, slabs, E. St. Louis lb. .17½- —
Naphthenate, liquid, 8% Zn, frt. alld lb. .23 - —
10% Zn. dms., frt. alld lb. .27¼- —
Oleate, fused, bbls lb. .36 - —
Oxide, pigment, dom., acicular, bgs., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
American process, com'l, lead-free, bgs., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
leaded, 5%, bgs., c.l., dlvd. lb. .16 - —
l.c.l., dlvd lb. .17 - —
35%, bgs., c.l., dlvd. lb. .16⅝- —
l.c.l., dlvd lb. .17⅛- —
50%, bgs., c.l., dlvd. lb. .16⅛- —
l.c.l., dlvd lb. .17⅛- —
French process, com'l, green seal, bgs., c.l., dlvd lb. .17¾- —
l.c.l., dlvd lb. .18¾- —
red seal, bgs., c.l., dlvd. lb. .17¼- —
l.c.l., dlvd lb. .18¼- —
white seal, bgs., c.l., dlvd lb. .18¼- —
l.c.l., dlvd lb. .19¼- —
USP, ctns., c.l., dlvd lb. .19¼- —
l.c.l., dlvd lb. .20¼- —
Zinc oxide Pac. coast prices 1c. higher; bbl. prices ¾c. higher than bgs.
Phenolsulphate, dms lb. .36 - —
Resinate, precip., dms., frt. alld lb. .23½- —
Silicofluoride, bbls., works lb. .10 - .10⅛
Stearate, tech., USP, ctns., c.l. lb. .44 - —
ton lots lb. .45 - —
less ton lots lb. .46 - —
Sulphate, cryst., 22% Zn. bgs., c.l., works, frt. alld 100 lbs. 6.85 - —
l.c.l., same basis 100 lbs. 7.25 - 9.75
flake, 25½% Zn, bgs., c.l., works, dlvd 100 lbs. 6.05 - —
l.c.l., works 100 lbs. 6.45 - 8.95
powdered, 36% Zn, bgs., c.l., dlvd., same basis 100 lbs. 9.25 - 9.40
l.c.l., same basis 100 lbs. 10.00 -10.15
Zinc sulphate in bbls. 40c. higher
USP, gran., dms lb. .23 - .23½
Sulphide, Pure, bgs., c.l., dlvd lb. .24 - —
l.c.l., dlvd lb. .25 - —
Thionosulphonate, NF, gran., bbls., dms lb. .33 - .34
powd., bbls lb. .36 - .37
Undecylenate, dms lb. 1.90 - 2.00
Yellow (see Yellow, zinc)
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 8.60 - —
l.c.l., works 100 lbs. 9.00 -11.50
Zinc-cadmium sulphide, fluorescent, cns., frt. alld lb. 2.00 2.80
Zinc-calcium resinate, dms., c.l., works lb. .1180- .1360
l.c.l., same basis lb. .1220- .14
Zinc-formaldehyde sulphoxalate, basic, dms., c.l. lb. .23½- —
l.c.l. lb. .24 - —
normal, dms., l.c.l., works lb. .50 - —



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...the ideal replacement for CARNAUBA

Worried about high prices and short supply of Carnauba wax?

Here's the solution to your problem! Concord #159 Wax, in specifications, is almost a twin brother to Carnauba. Melting point is exactly the same; other characteristics remarkably similar. Yet Concord #159 costs about one third less, and is available *now* from spot stocks.

Makes up into a beautiful, translucent water emulsion. Proved by years of satisfactory use.

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Concord Chemical Company
Moorestown, New Jersey

Gentlemen,

I'm interested in testing your Concord #159, so send me a working sample without obligation.

NAME_____

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STREET_____

CITY_____

CONCORD CHEMICAL COMPANY

MOORESTOWN, NEW JERSEY — Moorestown 9-1100

CRESYLIC ACID • JAPAN AND CARNAUBA WAX REPLACEMENTS
CANDELILLA WAX • REFINED TALL OIL

Zircon (see Zirconium silicate).			
Zirconium acetate, 13% sol ZrO_2, bbls., works	lb.	.21¼-	—
Carbonate, basic, cake, bbls., works	lb.	.30½-	—
Hydride, cns., works	lb.	7.00 -	8.00
Nitrate, dms., works	lb.	1.75 -	—
Oxide, 98½-99% white, grd., bbls. or bgs., works	lb.	1.50 -	—
lump, electric-fused, bgs., c.l., works	lb.	.44 -	—
5 tons, works	lb.	.44½-	—
1 ton or less, works	lb.	.45 -	.48
milled, electri-fused, bgs., c.l., works	lb.	.59 -	—
5 tons, works	lb.	.59½-	—
1 ton or less, works	lb.	.60 -	.63
Oxychloride, cryst., ctns., 5 tons, works	lb.	.29½-	—
Silicate, granular, bgs., c.l., works.	lb.	.03¼-	.03¾
10 tons, works	lb.	.03½-	.04
5 tons, works	lb.	.04 -	—
1 ton or less, works	lb.	.04¼-	.04¾
milled, bgs. c.l., works	lb.	.04¾-	—
5 tons, works	lb.	.05¼-	—
1 ton or less, works	lb.	.05¾-	.06¾
refined, bgs., c.l., works	lb.	.11 -	—
5 tons, works	lb.	.11½-	—
1 ton or less, works	lb.	.12 -	.16
Sulphate, cryst., ctns., c.l., works.	lb.	.37½-	—
5 tons, works	lb.	.38 -	—
1 ton or less, works	lb.	.38½-	.39

Congress Ends Probe

—*Continued from page 4*

the nutritionists and the medical profession on the one side favoring some means of compulsory pretesting of new chemicals for hazard qualities on humans, and with industry representative arguing that the present testing operations appear to be adequate.

Probably the only exception to this pattern of testimony was Charles Wesley Dunn, counsel for the Grocery Manufacturers of America who felt that existing controls are inadequate and proposed that the Food and Drug Administration be given authority to require proof of the safety of a chemical additive before it is used in any food product.

He said that the authority should be similar to that given the FDA over drugs, a proposal which has been advanced in many quarters and one that has already been put in bill form and presented to the committee by the FDA. Mr. Dunn said that at present, laws are inadequate to guarantee safety to the public in the use of chemicals in food.

FDA Proposal Held Unjustified

In an opposing statement, Samuel Fraser, speaking for the International Apple Association and fresh fruit and vegetable wholesale distributors, argued that there is no justification for the proposed legislation. He said that the bill proposed by FDA would subject industry to the "whim" of one man as to whether chemicals are safe.

He was assured by the committee that further hearings would likely be held on any legislation amending the food and drugs act, because the Delaney committee does not have the authority to report a bill, but can only recommend to the house what he believes should be done. It is then up to the regular standing committees of the house to bring in a bill, and before they did this it would reasonably be expected that they would hold hearings.

Dr. Robert A. Kehoe, M.D., director of the Kettering Laboratory, College of Medicine, University of Cincinnati, cautioned against placing too much reliance on regulatory action to correct the situation because no one agency can cope with the problem of this magnitude. It is not so much a question of regulating the use of poisonous substances, he stated, as it is in regulating poisonous concentrations. For that reason, the answers can be gotten only from the combined forces of chemical researchers, nutritionists, the medical profession and related fields.

He thought that too much reliance was placed upon the results of tests of various substances on animals, although he hastened to add that he did not intend to minimize the importance of such tests. But, he stated, the fact is too often overlooked that results from such tests cannot be applied to man, individually or collectively, without great reservation of judgment, pending the critical study of men under the actual conditions that obtain in practice.

Broad Medical Approach Favored

Dr. Kehoe said that what is needed is not a flood of ill-considered and narrowly-conceived toxicological investigations, but rather a broad medical and nutritional approach to a serious problem that will grow in variety and scope in the years ahead. As a temporary measure, pending the careful study of this entire legislative problem in an unharried manner, he proposed that the powers and scope of action of the federal government might well be expanded in such manner as to apply greater and more uniform pressure upon the food-producing and distributing industries to meet their responsibilities.

A vigorous attack on the use of DDT insecticides was made before the committee by Dr. Morton S. Bisking, of Westport, Conn. He reported on a series of observations on DDT poisoning in man, and concluded:—

"It is my opinion that the use on crops or in food establishments of any sort, or the chlorinated cyclic hydrocarbons (which include the DDT group of compounds), and the organic phosphates of the parathion group, should be, and if want to survive, must be specifically forbidden by law. I believe that all insecticides, and all other chemicals which may contaminate food, including all those now in use or to be used in the future, should be under the direct jurisdiction of the FDA, who should be required to pass upon the safety of these substances before permitting their introduction into general use, or the continuation of those now in use."

Thomas F. Cleary, vice-president of Geary Chemical Corporation, submitted a paper on two insecticides of the parathion group put out by his firm and told of the testing that preceded the introduction of these products into the market. He said that the products represent valuable advances in the field of economic pest control and their proper use is consistent with the best interests of public safety and economy.

Leonard A. Maynard, professor of biochemistry and nutrition of Cornell University, spoke on the effect of soil fertility and the use of commercial fertilizers on the nutritive value of food crops. He concluded that while organic matter is a large factor in soil fertility, there is no convincing evidence that organic sources of the elements needed for plant growth have any general superiority over inorganic sources for the improvement of the amount or quality of the human and animal food supply.

The committee also received papers from Henry H. Favor, manager of the foods department of R. T. Vanderbilt Company, on tests made of chemical emulsifiers of Atlas Powder Company for bread; Faith Fenton, professor of food and nutrition at Cornell, favoring some form of tighter control over chemical additives, and from F. J. Schlink, president and technical director of Consumers' Research, strongly advocating controls.

Munitions Board Views

—*Continued from page 3*

study and report its findings as quickly as possible. The subcommittee has also asked the Department of Defense to include naval stores and cotton linters in its purchase program to keep the Department of Agriculture completely and currently informed of estimated long-range requirements for these products as well as for food, wool and long-staple cotton.

The requests were contained in report of the preparedness subcommittee issued December 11 in which it sharply criticized the Munitions Board for "short sightedness" in failing to stockpile wool, cotton linters and naval stores. As a result, the country is facing a critical shortage of wool and a very low supply of chemical-grade cotton linters.

"Rapid mobilization requires an enormous amount of critical materials immediately, many of which are produced at home. The strategic stockpile is not designed to meet this requirement. This gap might be filled by the establishment of critical materials stockpile, the purposes of which would be to supply the domestically produced materials necessary for rapid mobilization during the period which would elapse between the time when the rapid mobilization commences and the current production could be brought to a point at which current demands would be satisfied."

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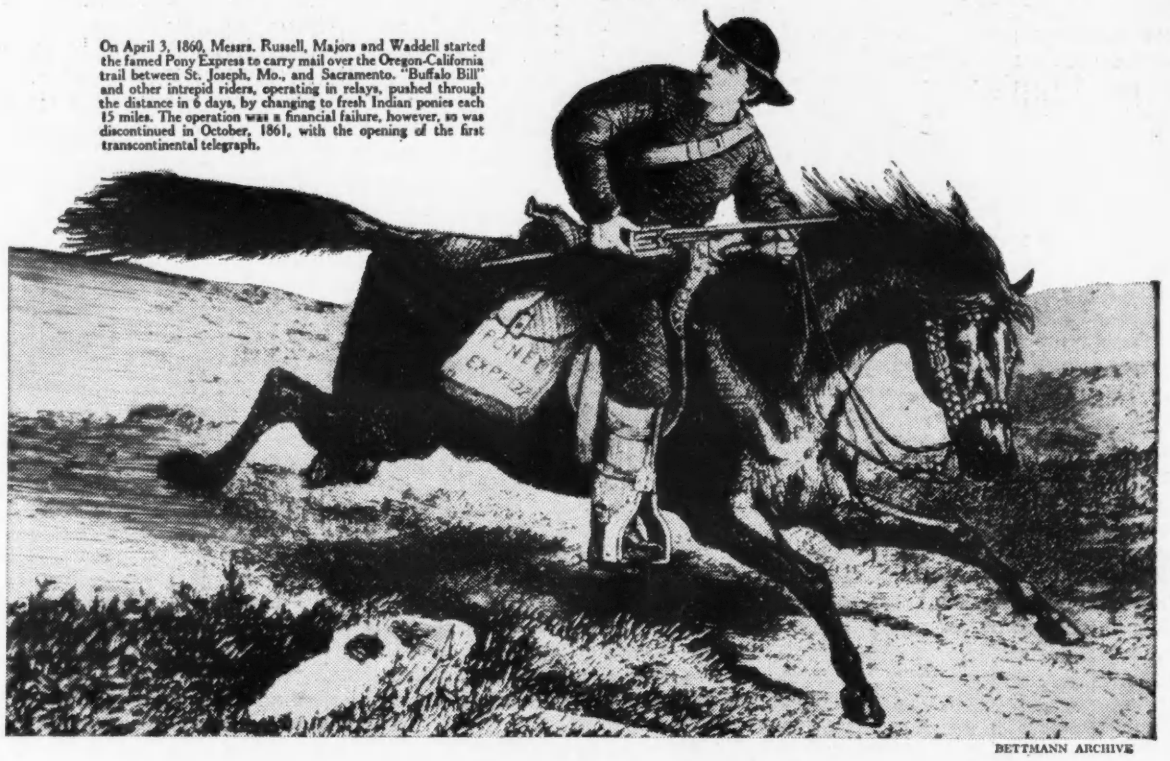

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1860-PONY EXPRESS

THE Pony Express organizers, like many other pioneers, learned the hard way that it was not enough just to develop a good product or service. It must have a profitable market.

In those years our young company was treading the same thorny path. We had developed, in 1852, the American Process for making Zinc Oxide, only to find that there was no substantial market for the pigment. There was no ready-mixed paint industry and only a small rubber industry, which today consume the bulk of the Zinc Oxide.

So we took a new approach and proceeded to develop markets for Zinc Oxide. Through experiments we found that our product—Horse Head Zinc Oxide—had several desirable paint-making properties not possessed by the only other white pigment of those days—white lead. It made better white enamels and improved the whiteness, fume resistance and weathering properties of exterior paints.

To provide painters with our pigment in convenient form, we produced Zinc Oxide pastes in oil and also in Dammar varnish. This led commercial paste grinders to experiment with Zinc Oxide in their products, and it was out of their tests that the ready-mixed paint industry was born. For several of those grinders found that Zinc Oxide, when incorporated into their coatings, imparted not only superior appearance and durability at lower cost, but also such good suspension properties that the finishes could be marketed at painting consistency, ready-to-use.

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Volume 158 December 18, 1950 Number 25

Sulphuric Acid Sources

Three important chemical materials of industry particularly are in short supply. Alphabetically, if not statistically, these are benzene, chlorine, and sulphuric acid. Their scarcity impinges broadly upon the everyday and emergency needs of the nation. And the latter needs are still but in embryo insofar as actual demand is concerned.

The chemical industry recognizes its responsibility with reference to the supplying of all needs of the nation which fall upon it. It is striving to avoid a calamitous consequence of any inadequacy of its providing. Plans are being laid for applying to the providing of benzene the technical knowledge and facility which exist with reference to the use of petroleum as the parent material. Cost is an important factor in that connection. In emergencies, that factor always shrinks as adequate is largely a matter of time. Recovery from a deterrent.

Making the supply of chlorine at least more nearly the enforced suspension of productive operations several months ago is a slow process. Restoration of the previous volume of production cannot be completed before about the end of the first quarter of next year. No other means of increasing the supply is practicable.

Sulphuric acid presents a different picture; albeit its shortage is similar to that of benzene in that the main contributing factor is inadequacy of raw material. The shortage of sulphur is, in part, owing to the demands laid upon the United States to supply an extraordinary part of the world needs. Some restrictions on exports are more or less in the making; but that will not suffice: the supply as a whole is not adequate to the substantially increased domestic demand.

The search is on for new deposits of sulphur; but it would seem that there is greater promise in the direction of other sulphur-bearing minerals. There are some big jobs in chemical and metallurgical technology and practice in that connection.

Anhydrite and the more common form of native calcium sulphate, gypsum, are being used as the source of sulphuric acid in the United Kingdom and, it is reported, in India. There are at least rumors that calcium sulphate is being thus used also in continental Europe, with calcium nitrate as a by-product. Production of gypsum in this country increased from 3,811,723 tons in 1945 to 6,208,216 tons in 1947. The output in the first nine months of 1950 was 5,764,415 tons. Imports increased from 508,762 tons in 1945 to 2,157,049 tons in 1947. This country is said to have more than one-half of the world's consumption. Whether its production could be further increased enough to provide a substantial source of sulphur oxides is problematical. Switches in application might be made.

There are other sulphur-bearing materials whose invitation to investigation as a source of sulphur oxides is promising. Any such application of barite, for example, doubtless would require some measure of replacement in its big use in the drilling of oilwells. Domestic production increased from 692,330 tons in 1945 to 884,219 tons in 1947. Imports dropped from 56,894 tons to 53,222 tons. Consumption in 1947 was 48,401 tons less than domestic production. To what extent that spread could be stretched to contribute to the supply of sulphuric acid can be determined only by trial.

One of this country's plentiful sulphur-bearing minerals that is of great chemical and metallurgical interest is alunite, native potash alum. This has been promoted as a source of both potassium and aluminum. Its smelting has been demonstrated to be practicable. The resulting fumes should not present any special difficulty in connection with their conversion into sulphuric acid. The economics of producing either aluminum or potassium, primarily, from it, or both in a correlated proportion, is still a controversial matter. Its technical handling is variously evaluated. But, alunite is a promising mineral in several directions. Its full chemical development is of distinct importance, whatever may be its position metallurgically.

They Let It Alone

Price-boosting continues to be one of this country's most popular activities. It runs from raw materials to all sorts of finished goods and their wrappings. Dealing with the resultant problem is one of the various emergency procedures that government is dodging. In that area, as in those of variously preparing an adequate national defense, the federal administration either does not know how to proceed or, more likely, is fearful of the criticism and consequences which it will meet in whatever it does. Much is being said; little is being done even in the things where some sort of decision appears to have been arrived at. In all too many things — including the blocking of cost boosts — even what is said does not fit the case.

All prices and all costs which contribute to them should long since have been frozen, and adequate preparation should have been made to deal effectively with all who sought to melt holes through such freezes either as sellers or as buyers. It is easy to say that that could not be done, and to point to the failure of prohibition as a substantiation of that declaration. But, the majority of the people did not want prohibition; the majority does want low prices. And any honest government enforcement could have learned enough out of bootlegging and the World War II black marketing to know how to make controls work. In the matter of price-control, making it work could not lose votes.

Voluntary controls are the lip-service fetish of those who should put an end to profiteering in services and in goods. That idea took a new path recently when the government asked the two biggest automobile manufacturers to suspend price increases which they had announced. As those increases were clearly justified by increased costs of materials and of manpower, on which no similar request was made, the manufacturers refused to comply. About the same time, a government agency required another automobile manufacturer which had been granted a government loan, to keep the prices of its product where they were. While that two-way policy may be economically defensible, it does not fit into the tenets of ethics, whatever may be their status in even the social phases of economy.

Business leaders are declaring that the imperative defense program of the United States will be possible without mandatory controls. Of course, the realms of possibility are almost unlimited—if there be no regard for the cost of its attainment. The national problem today is not one of possibility but one of practicability. It is not a matter of can this or that be done, but a question of can we do it. There is a wide difference there—a matter of adequate preparation and due regard for consequences. Already the direct threat to the stable existence of this nation lies with its own people and those who, unfortunately, are too closely "duly representative" of them in positions of leadership.

OPD Forum

An Outlet for Individual Opinion

(Anonymous communications will not be recognized, but a signer's name will be withheld at request.)

Trademarks in France

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

We feel that the remarks of Charles Vaille, director of pharmacy and narcotic services, Ministry of Public Health, Republic of France, on the visa law of that country as it applies to drugs are of great interest to all United States pharmaceutical laboratories who are interested in marketing their branded medicinals in France. For that reason we submit the following summary of his remarks at the recent APMA meeting, as translated by Dr. F. Jonas:—

"The purpose of the French legislation 'Loi sur la pharmacie' is not to prevent legitimate and fair competition between American-brand medicinals and French medicinals. The purpose is to protect French public health, and that is the basis of the legislation. On the surface and for the foreigner in particular, this legislation seems to be rather complex and difficult; lack of information misled a number of American industrialists in the handling of the problems in order to get full protection for their brand-medicinals.

"It must be well understood that the French legislation distinguishes between chemical products and typical brand-medicinals.

"In order to obtain a 'Visa de Specialite' for brand-medicinals, allowing the marketing of a new brand-medicinal, the manufacturer has to make application to a technical committee composed of scientific or otherwise technically competent people, but on which no member of the government has influence.

"The 'Visa' (which must not be confounded with an import license) is granted in the course of a procedure which starts with the demand or application for a visa, provided it presents a novelty from the chemical, and therefore generally scientific angle, and provided nobody else had already applied for the 'Visa de Specialite' for this product, and provided it is not dangerous or toxic.

"If such a demand is granted, the owner of the visa is entitled to market it under whatever trade-name he can obtain or chooses as a national registration. In order to insure higher objectivity in the handling of such applications, it is provided that the technical committee, which was just mentioned, does not know and does not care to learn who is the original manufacturer of the product, but it is interested only in it's objective values, in order to be able to judge them without any prejudice.

"The blame which could be raised against this French legislation is that sometimes it is not the inventor or original discoverer of the particular compound who

—*Continued on page 94*

Concerning Tenders

The Editor,
OIL, PAINT AND DRUG REPORTER.
Sir:—

I suppose there will be a new tender on January 5 for turpentine, root resin, and balsamic resin from the United States and/or possessions. If you are liable to do so, I should be grateful to have your permanent informations on the development of the market.

Shortly before the effective date of the tender you will get my cable informations on the prices of our competitors, so that you may be able to give me a firm offer at a price which will give us a chance of succeeding in the tender.

Hamburg H. J. v GUNDLACH

Washington Talks It Over

—*Continued from page 5*

"choice" cuts, choice prices for "good" cuts, and so on.

The department's excuse is that consumer preferences have changed over the past twenty-five years and people have been buying more of the lower grades because they included the smaller-sized and leaner cuts of beef. These purchases chiefly were in the so-called "commercial" grade, and because, officials said, there appears to be a consumer preference for this type of meat, it has been decided to give it a grade of its own—"good." In order to do that, however, the other grades have to be up-graded.

So, prime grade, which constituted about one-half of one percent of beef production, now will include the "choice" grades. The present "good" beef becomes "choice," and "good" will apply to the small-size lean cuts that were in the "commercial" grade. "Commercial" grade will include only beef from older cattle, and from some younger animals that lacks finish and quality.

The department said that prices should not be affected by the change in grading because relative demand determines the prices for different kinds of beef. But prices do not determine the quantity within a grade and the price ordinarily is related to the grade and all the cuts within that grade.

Statistical Data Censored

The blackout curtain is gradually being lowered by the government on the statistical information of its agencies. Acting on orders from the President, the Bureau of the Budget has instructed all federal establishments to hold up publication of all statistical information which may involve matters of national security until it has been cleared by the bureau.

The President assigned the responsibility over the releasibility of information in the statistical field to the budget bureau because it already has the responsibility for the improvement, development, and coordination of federal statistical services. The bureau passes upon the need for government questionnaires and reports and also has much to do with framing the various industrial surveys of the different agencies.

It is yet too early to list the various statistical reports that will be dropped, but undoubtedly many will be discontinued and others greatly modified. The effect of this new policy already has been felt in one field. The Armed Services Petroleum Purchasing Agency already has stopped releasing information on purchase requirements.

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B_6

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Heavy Chemicals

Acid index advanced to 126.1 last week from 125.8 in the preceding period. Price advances included copper acetate, defluorinated phosphate, defluorinated phosphate rock, metallic nickel, muriatic acid, quicksilver and zinc acetate. The advances were attributed mostly to increased demand and higher producing costs. Advances in the commercial grades of acetic acid are expected to follow the late upward revision in glacial. No improvement could be noted in the supply of nickel salts but a stronger background has developed through an advance in the basic metal. More strength has materialized in the chlorates and the price slant is upward while producers commitments have soared to such dimensions that new business for specified shipment dates is not being considered. Declines were confined to the tin salts where the erratic fluctuations of the metal finally established a lower basing point.

General tightening of available stocks has increased the difficulty in purchasing heavy chemicals. Output of copper sulphate is entirely sold through February and producers are not offering March until there is a clarification of how much metal and scrap are going to be obtainable for civilian use. Soda ash, caustic so a and affiliated chemicals remained in short supply and no easement in the supply of chlorine is in sight. DO orders have affected the supply of naphthenic acid. Shipments of oxalic acid are running weeks behind and sulphuric acid has continued exceedingly tight, in fact there is not a heavy tonnage acid that is in the free supply at the present time.

Paper production based on a percentage of six-day capacity was 106.7 percent for the week ending December 9, according to the American Paper and Pulp Association. This compared with 104.1 in the preceding week and 99.9 for the corresponding week in 1949.

Imports appearing below, unless otherwise designated, are from the Department of Commerce.

Ammonia Liquor—Production in October increased 11.2 percent to 4,108,631 pounds, according to the Bureau of Mines. September output was 3,694,427 pounds and in October last year 2,355,000 pounds were produced. Total production from January through October was 38,136,949 pounds, compared with 38,711,700 for the corresponding period in 1949. Sales in October amounted to 2,902,095 pounds against 3,166,027 in the preceding month and 2,458,400 in October, 1949. Stocks on October 31 were down 9.4 percent to 1,086,966 pounds, compared with 1,199,810 on September 30 and 1,488,100 on October 31, 1949.

Chlorine—Production continued insufficient to meet requirements and no easement could be noted in the supply position. Demand held at a high level with no indications of being leveled off in the near future. September exports were placed at 1,398,030 pounds including 1,149,646 pounds to Canada.

Copper Acetate—Priced higher at 37c. per pound in carlots and 38c. in smaller quantities f.o.b. the works. Mounting producing costs accounted for the upward revision.

Copper Sulphate—Supply remained exceedingly tight with February output entirely under contract and producers not offering March pending a clarification of NPA orders 11 and 12 which refer to the civilian use of copper. Domestic and export inquiry continued active with interest mounting for agricultural use. There was no change in prices except that material packed in barrels has been advanced from 25c. per 100 pounds to 50c.

United Kingdom's exports of copper sulfate in the fiscal year 1949-50 increased to 43,391 long tons from 34,988 tons in 1948-49, according to the annual report of the British Sulphate of Copper Association, Ltd. A shortage of scrap copper may result in decreased production and exports of copper sulfate in the 1950-51 fiscal years, the association states.

Defluorinated Phosphate—Priced higher at $49.25 per ton for 13 percent phosphorous content and at $62.75 to $63.75 per ton for 18½ percent phosphorous, carlots f.o.b. the works.

Defluorinated Phosphate Rock—Sales are being made on the basis of $50 per ton works for 14½ percent phosphorous content, an advance of $5 per ton. Current demand is running ahead of supply and the market's position is definitely tight.

Potash, Caustic — Production is gradually increasing but is not showing significantly on the surface of the market. Maintenance of heavy industrial demand is absorbing output readily leaving the supply position tight. September exports totaled 247,986 pounds with Canada taking 224,840.

Potassium Carbonate—Followed along the lines set by caustic potash. Demand heavy and exceeding production sufficiently to hold the supply position definitely tight. Demand from the glass specialty plants has shown no signs of easement.

Potassium Chlorate — Supply situation has remained exceedingly tight since the turn of the month with demand heavy and topping current production. Meanwhile, the market has developed a decidedly strong tone which may develop in the establishment of higher prices. Producers are not eager for new business either in chlorate or perchlorate owing to heavy commitments now on their books.

Potassium Stannate—Priced lower at 81c. to 86.6c. per pound. The decline was made effective by a lower basing point for tin metal.

Soda Ash — Requirements continued ahead of production, although gradual progress is being made in filling the vacuum created by the recent alkali strike. The supply situation is tight and will probably remain so well into the first quarter of 1951. Export shipments during September totaled 5,937,914 pounds including 5,163,003 pounds to Mexico, 312,096 to Cuba and 234,465 pounds to Canada.

Brazil's imports of soda ash in the first 6 months of 1950 amounted to 26,112 tons, valued at 20,744,000 cruzeiros (approximately $1,121,795).

Soda, Caustic—Supply has eased a bit in liquid but not in the dry forms, particularly flaked. Market conditions are similar to those in soda ash in as much that big backlog orders still have to be leveled off. September exports of solid amounted to 11,008,957 pounds including 2,011,954 pounds to Mexico, 930,700 to Colombia and 729,560 pounds to Peru. Exports of liquid in September were 4,287,638 pounds with Cuba taking 2,212,735.

Brazil's imports of caustic soda in the first half of 1950 totaled 33,890 metric tons, valued at 59,938,000 cruzeiros (approximately $3,236,650), according to statistics of the Ministry of Finance.

Sodium Chlorate—Market strong and showing a tendency to advance. Output is heavily under contract for weeks ahead and costs to manufacture are steadily mounting. It was stated that increased production of substantial dimensions will start about January 1 and this has also been sold on contract.

Sodium Stannate — Priced lower at 76.2c. to 81.2c. per pound, freight allowed East. The downward revision was the result of a lower basing point established by tin metal.

Tin Salts—Prices were lowered in most of these items last week owing to a lower basing point for the metal. The breakdown shows chloride stannous anhydrous at $1.09 to $1.10 per pound, crystals 89½c., sulphate stannous $1.188 to $1.208 and tetrachloride at 79c. per pound. These prices are based on tin at $1.39 per pound.

Zinc Acetate—Higher producing costs were reflected in higher prices for this

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

Acid, muriatic, 18 degree, tankcars, $9 per ton.
20 degree, tankcars, $8 per ton.
22 degree, tankcars, $10 per ton.
Copper acetate, 11c. per lb.
Defluorinated phosphate, $5.10 per ton.
phosphate rock, $5 per ton.
Nickel, 2½c. per lb.
Quicksilver, $3 per flask.
Zinc acetate, 1¾c. per lb.

Prices Reduced

Potassium stannate, 2c. per lb.
Sodium stannate, 1c. per lb.
Tin chloride, 2c. per lb.
crystals, 1½c. per lb.
metal, 2c. per lb.
sulphate, 2c. per lb.
tetrachloride, 3c. per lb.

Comparative Price Indexes

General Chemicals

(100—August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 16, 1949
242.3	242.3	234.8	216.4	216.4

Acids

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 16, 1949
126.1	125.8	124.4	121.8	121.8

(*For Current Prices see Page 9*)

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Acids

Acetic—Glacial firm at the late advance with demand active from rayon and textile mills as well as from the manufacturers of esters. Available stocks continued exceedingly short. The commercial grades have not responded to the advance in glacial to date.

Chromic—Plating demand strong and keeping production under heavy pressure for shipment. Output gradually increasing but not sufficiently to ease the supply situation.

Muriatic—Firmly established at higher prices. The breakdown shows 18 degree in carboys at $2.45 for 100 pounds, carlots and tanks at $31 per ton. 20 degree $2.70 carboys, carlots, tanks $33 and 22 degree $3.20 per 100 pounds in carboys, carlots and at $38 per ton in tankcars, all prices f.o.b. the works with available stocks definitely short for prompt shipment.

Naphthenic—Market position tighter than a month ago with stocks for civilian use reduced by the acceptance of DO orders. The market remained firm with no new price changes announced.

Oxalic—Supplies about as short as during the last world war. The disposition of consumers to increase inventories has taken all production for several weeks ahead and it is difficult for producers to accept business calling for shipment at a specified date.

Sulphuric—Market continued strong with no sign of easement in the consuming demand. Production has remained under heavy pressure for shipment and the market has given no indication of relaxing from its exceedingly tight supply condition.

Manufacture of sulphuric acid in Jamaica has been declared a pioneer industry under the Pioneer Industries (Encouragement) Law, 1949. Other products included are hydrochloric acid, sodium sulphate, sodium bisulphite, refined sulphur, copper sulphate, aluminum sulphate, superphosphate, and citric acid. A new company to manufacture these materials has recently been established in the island.

Nonferrous Metals

Aluminum — Production of primary aluminum in the United States during October was about 2,000,000 pounds above the average monthly output during the third quarter of the year, the Aluminum Association reported. With a total of 125,830,495 pounds, the October production exceeded the September total of 118,898,418 pounds by almost six percent. Referring to the aluminum industry's program to increase production of this strategic lightweight metal, it was stated that the industry has now been althorized by the government to reactivate as soon as possible certain reduction equipment heretofore idle for lack of economical electric power. The necessary high-cost power will be made available for the emergency, and these stand-by aluminum facilities will soon be producing for the national stockpile. Addition of considerable new capacity by industry members has also been approved by the government. October shipments of aluminum sheet and plate by Association member companies totaled 108,'70,099 pounds. This is about 3,500,000 pounds above the third quarter monthly average, but about 1,600,000 pounds under the September total for these items.

Copper—Buying interest remained active with total sales for December delivery around 100,000 tons to date and about 25,000 tons booked for January. An announcement from NPA is expected shortly regarding specification controls. Electrolytic closed the week at 24½c. per pound delivered Valley or Midwest basis.

Mine output of recoverable copper increased 2 percent in October to 77,912 tons but on a daily average basis dropped 2 percent, according to the Bureau of Mines. For three months output has been at an annual rate in excess of 900,000 tons. Production in October was featured by a gain of 43 percent in Nevada to the highest monthly rate since March 1943; by an increase of 6 percent in Arizona to a peak since March 1949, by a rise of 19 percent in Montana, and by declines of 14 and 3 percent, respectively, in Utah and New Mexico. New Mexico's output, nonetheless except for September, was the largest since November 1948. The sharp rise in Nevada resulted from greater output at the mines in the Robinson district, White Pine County. Arizona's

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increase was due to greater output of copper ore at a number of properties. Increased output of copper from mines and dumps of Butte, caused the advance in Montana. Utah's drop resulted from a 2-day stoppage of mining at Bingham, West Mountain district, because of a break in the tailing dike.

Lead—Prices held steady last week with demand active and offerings limited. The market position was strong with future shipments commanding one half to three quarter cents premium over spot. The common grade was priced at 17c. per pound New York and 16.80c. St. Louis at the close.

Average daily rate of lead production from domestic mines in October dropped 23 tons or 2 percent from the September level, according to the Bureau of Mines. Lead output for October, in terms of recoverable metal, was 35,356 short tons, an average of 1,141 tons per day compared with 35,084 tons in September produced at an average rate of 1,169 tons per day.

Combined lead output in Arkansas, Kansas, Missouri, and Oklahoma totaled 13,445 tons in October. Production increases in Kansas and Missouri of 3 percent and 2 percent, respectively, were more than offset by a 13 percent drop in output in Oklahoma. The decrease in Oklahoma production was due largely to a decline in output of lead concentrates at a large mill. In the states East of the Mississippi River, the combined October lead output fell off 24 percent due principally to a labor strike beginning October 9, at a plant in Austinville, Virginia.

Magnesium Scrap—The naval air station at Corpus Christi, Texas, is offering 2,000 pounds of magnesium scrap for sale in catalog B-36. Bids will be received up to December 21.

Manganese—Shipments of ore averaging 35 percent (natural) or more manganese from domestic mines during the third quarter 1950 increased 13 percent over the second quarter to 43,900 short tons, according to the Bureau of Mines. Except for small fluctuations in other states, the entire increase in shipments came from stocks held at Montana mines and mills. These stocks were reduced from 14,396 tons on June 30 to 6,101 tons on September 30, a reduction of 58 percent. Less than 500 tons were reported held at mines in other states. Montana accounted for 97 percent of the domestic shipments, and the remainder came from Arizona, Arkansas, and Tennessee. Manganiferous iron ore and ferruginous manganese ore (5-35 percent manganese) shipments increased 51 percent due largely to heavier shipments from the Cuyuna Range, Minnesota.

Nickel—Priced higher at 50½c. per pound including the import duty of 1¼c. per pound. Increased producing costs, particularly labor accounted for the upward revision.

Quicksilver—Priced higher with buying interest active. Round lots on spot were held at $125 per flask with 5 flasks or less bringing $128. Prices current were the highest established this year to date.

San Francisco.—Metal continues exceedingly scarce with the trade highly interested in recent price developments. Current quotations list metal at $123-$125 per flask.

Large receipts of quicksilver from abroad, 29,856 flasks, featured the industry in the third quarter of 1950, according to the Bureau of Mines. Unlike 1949, when the record entries were largely for the government stockpile, imports through September in 1950 were for industrial use. The consumption rate in July-September 1950 was not greatly different from that in the preceding three quarters. Domestic production in the third quarter, 1,100 tons, approximated the revised total for the second quarter. Barring an unexpected sharp increase in the fourth quarter the total for 1950 will be the smallest annual quantity by a substantial margin since production records began in 1850. A large quantity of quicksilver was accumulated in the July-September quarter for use in a new chlorine and caustic soda plant to be located at Saltville, Va. The plant is reported scheduled to go into operation in 1951.

Silver — Demand continued broad enough to hold the market steady. Bullion in New York closed at 80c. per ounce.

Mine output of recoverable silver declined 2 percent to 3,535,230 ounces in October and on a daily average basis was 5 percent less at 114,040 ounces, according to the Bureau of Mines. Among important silver-producing states, Montana gained 11 percent, whereas Utah dropped 9, Idaho 7, Nevada 6 and Colorado 2; Arizona's rise of 4 percent virtually coincided with the increase in length of the month.

Tin—Prices continued to move erratically in line with London and Singapore. Activity in the local market was relatively quiet with the trade awaiting an announcement from NPA regarding the cutback for civilian use. The prevailing price for grade A at the close of the week was $1.45 per pound.

Zinc—Available stocks of prime western were definitely short with the market in an exceedingly tight position. Current demand is considerably ahead of supply and still expanding. Prime western was priced at 17½c. per pound East St. Louis basis.

Slab zinc smelter stocks increased to 9,255 tons from 9,108 tons during November, the first increase so far in 1950, the American Zinc Institute announced. Smelter production and shipments of slab zinc were slightly lower than in October. On Oct. 31 smelter stocks of 9,108 tons were at the lowest level since 1925. At this time in 1949 the total on hand was 89,019 tons. During November production of slab zinc totaled 79,226 tons, compared with 79,997 in October. Domestic shipments were off to 69,202 from the October total of 71,596 tons. Shipments to the government, however, increased to 6,175 from 5,283 tons in October. Production of prime western in November was 38,326 tons and stocks on November 30 were 4,168 tons.

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British Sulphuric Acid In April-June Reported

Sulphuric acid statistics during April-June of this year in the United Kingdom have been reported by the National Sulphuric Acid Association, Ltd.

Total capacity of sulphuric acid and oleum during the period by chamber process was reported at 202,300 tons of 100 percent H_2SO_4, or 87.5 percent of production, as against 292,860 tons by contact process, representing 97 percent of production.

Overall statistics of sulphuric acid and oleum in tons of 100 percent H_2SO_4 during April-June follow:—

	Chamber and contact
Stock, April 1, 1950	57,956
Production	461,025
Receipts	66,224
Oleum feed	1,868
Adjustments	—126
Use	222,179
Despatches	306,323
Stock, June 30, 1950	58,445
Total capacity represented	495,160
Percentage production	93.1%

Consumption of raw materials during April-June in tons was reported as follows:—

	*Consumption
Pyrites	54,567
Spent oxide	47,304
Sulphur and H_2S	21,622
Zinc concentrates	43,587
Anhydrite	49,261

* Includes production at government plants where those plants are producing acid for trade purposes.

Breakdown of consumption of sulphuric acid and oleum by trade uses in the United Kingdom during April-June follows:—

	Tons 100% H_2SO_4
Agricultural purposes	1,676
Bichromate and chromic acid	3,101
Bromine	3,253
Copper pickling	592
Drugs and fine chemicals	2,566
Dyestuffs and intermediates	20,771
Explosives	4,167
Glue, gelatin and size	137
Hydrochloric acid	16,850
Hydrofluoric acid	2,221
Iron pickling (incl. tin plate)	24,214
Oil refining and petroleum products	15,970
Oil (vegetable)	2,123
Paint and lithopone	34,943
Phosphates (industrial)	3,161
Plastics, not otherwise classified	5,180
Rayon and transparent paper	87,772
Soap and glycerine	3,866
Sulphate of ammonia	65,679
Sulphates of copper, nickel, etc.	6,353
Sulphate of magnesium	1,404
Superphosphates	122,626
Tar and benzole	4,620
Textile uses	6,041
Unclassified	30,106

Amroc Has Small Unit Caustic-Chlorine Plant

Amroc, Inc., New York, has developed a small unit plant for the production of caustic soda, chlorine and hydrogen directly from salt and water. The unit, called the "Amroc Packet Plant," consists of a highly developed mercury cell complete with denuder, a power rectifier, brine preparation tanks, brine recirculation equipment and caustic receiving tank.

Occupying a space of three and one-half feet by twenty-five feet, the unit is claimed to have a daily output of not less than 225 pounds of 100 percent caustic soda, 200 pounds of chlorine and five pounds of hydrogen. With the necessary auxiliary equipment, the unit is said to have a daily output of 400 gallons of either calcium or sodium hypochlorite in a 5½ percent solution. Using the chlorine and hydrogen for the production of hydrochloric acid in a 22-degree concentration, the daily output is approximately 65 gallons of acid in addition to the caustic soda.

Amroc, which is located at 280 Broadway, New York 7, has prepared a booklet describing the small unit caustic-chlorine plant.

Ansul Opens in Buffalo

The fire extinguisher division of Ansul Chemical Company, Marinette, Wis., has announced the opening of a new district office in Buffalo, N. Y. This territory, comprising the seventeen western counties of New York State, had been operated by Plant Equipment Corporation, an Ansul distributor. Leslie J. Wiechers, former manager of Ansul's Indianapolis, Ind., office, will head the Buffalo staff.

Trade Briefs

Chemical Construction Corporation, New York, has appointed Brig. Gen. Edward Montgomery, U. S. Army, retired, to the post of assistant to the executive vice-president.

International Minerals & Chemical Corporation, Chicago, has inaugurated a program calling for continued full hospitalization and surgical benefits on the basis of present coverage for dependents of employees drafted into military service.

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Lead Supply, Prices in '49 Reported by Mines Bureau

The transition in lead supply from insufficiency to abundance accompanied by falling prices highlighted the domestic lead industry in 1949, according to the Bureau of Mines. Contributing to the expanded supply was the high level of imports prevailing during the year, which resulted in accumulation of nearly 400,000 tons of lead from foreign sources, the largest annual tonnage imported in the peacetime history of the United States.

Although labor strikes continued to exact a toll in reduced output of lead at mines and smelters, the total loss of production was not as great as in 1948. Total mine output advanced 5 percent in 1949, and production of refined lead at primary refineries rose 22 percent to the highest level since 1942. Lead from secondary sources continued for the fourth year to be a greater source of supply than production from domestic mines. Overall consumption of primary, antimonial, and secondary lead in the United States declined 16 percent from 1948.

Salient statistics of the lead industry in the United States in short tons during 1949 as compared with 1948 follow:—

	1949	1948
Production of refined primary lead:		
from domestic ores and base bullion	404,449	339,413
From foreign ores and base bullion	72,889	67,281
Total	477,338	406,694
Recovery of secondary lead.	412,183	500,071
Imports (general):		
Lead in pigs, bars, and old	289,689	*276,013
Lead in base bullion	2,373	7,186
Lead in ores and matte	107,279	63,907
Exports of refined pig lead	969	*411
Consumption of primary and secondary lead	957,674	1,133,895
Prices (cents per pound):		
New York:		
Average for period	15.36	18.04
Quotation at end of period	12.00	21.50
London average for period.	16.95	17.16
Mine production of recoverable lead	409,908	390,478
World smelter production of lead	1,723,000	*1,488,000

* Revised figure.

St. Regis Elects Lewis

St. Regis Paper Company, New York, has elected James P. Lewis to its board of directors to fill a vacancy created by the death of his father, Harry S. Lewis, last October. Mr. Lewis is also associated with the J. P. Lewis Company, Beaver Falls, N. Y.; Latex Fiber Industries, Inc.; The Beaver River Power Company, Smith-Lee Company, Oneida, N. Y., and the Payne-Jones Company, Lowville, N. Y.

Tariff Commission Issues Import Duty Supplement

The Tariff Commission has released the first supplement to United States Import Duties (1950), bringing that publication up to date. The original document, released in August, 1950, showed all United States import duties in effect on July 1, 1950. Most of the changes in duty since that date result from the withdrawal (effective December 11, 1950) of certain of the tariff concessions originally negotiated with China in the general agreement on tariffs and trade and from the termination (effective at the close of December 31, 1950) of the trade agreement between the United States and Mexico.

Persons who already have *United States Import Duties* (1950) can obtain copies of this supplement without cost by addressing a request to the commission, Washington 25, D. C. New purchasers of this publication from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. (price $2), can also receive this supplement upon request to the Tariff Commission.

Wyandotte Moves in Ohio

Wyandotte Chemicals Corporation, Wyandotte, Mich., has moved the Cincinnati, Ohio, office of its Michigan alkali division to 825 Dixie Terminal building. The new telephone number is Cherry 4941.

Glacial Acetic Acid Data Offered

Niacet Chemicals Division has published a bulletin on glacial acetic acid (No. 1), which presents in detail the physical and chemical properties, latest specifications on the standard CP and USP grades, as well as the shipping and handling information on the chemical. Of particular interest to plant men is the procedure outlined in the publication for handling and unloading of tankcars. Copies can be obtained from Niacet, 966 Niagara Building, Niagara Falls, N. Y.

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Obituaries

Emory S. Morris

Emory S. Morris, president of the Ni-Late Company and one of the founders of the Nugrape Corporation of America, died December 12 in Atlanta, Ga. He was sixty-eight years of age.

Mr. Morris also founded the Insecticides & Chemicals Manufacturing Company, Atlanta, in 1917, and was an organizer of the Roznoille Laboratories thirteen years later.

I.J. Stanley, jr.

I. J. Stanley, jr., manager of heavy chemical sales for the organic division of Monsanto Chemical Company, St. Louis, Mo., for the past sixteen years, died December 12 in Charleston, W. Va. He was fifty-four years old.

Mr. Stanley joined Monsanto in 1930 as an acid salesman, and became manager of heavy chemical sales of the organic division in 1934. Prior to his Monsanto connection he was associated with J. Q. Dickinson & Co., the Lamie Chemical Company and the Kanawha National Bank of Charleston.

William R. Elsas, president of the Fulton Bag & Cotton Mills, Atlanta, Ga., died December 9 in Tryon, N. C. He was forty-five years old. Mr. Elsas, who was associated with the Fulton firm for the past quarter century, was named president last January.

Dr. Dorothy A. Hahn, who retired in 1941 after thirty-three years as a member of the chemistry department of Mt. Holyoke College, died December 10 in South Hadley, Mass. She was seventy-six. Dr. Hahn taught at Pennsylvania College for Women before joining the Mt. Holyoke faculty. She was co-translator of a volume, "Theories of Organic Chemistry," by Dr. F. Henrich.

Arthur E. Hinch, who retired in 1932 as comptroller of the Standard Oil Company of New York, died December 12 at his home in Upper Montclair, N. J. He was eighty-seven years old. Mr. Hinch represented the oil company in the Far East from 1906 to 1917.

Langley S. Homer, general superintendent of the Philadelphia territory of the Turner Construction Company since 1942, died December 12 in Boston, Mass. He was sixty years old. Mr. Homer became associated with the Turner concern in 1920.

George V. McCarthy, traffic manager for the Liquid Veneer Corporation, Buffalo, N. Y., died December 8. He was fifty-seven years old. Mr. McCarthy had been with the Buffalo concern for ten years.

Warner McLaughlin, metallurgist, and former employee of the Anaconda Copper Company, died December 7 in Albany, N. Y. He was sixty-two years of age.

William F. Noble, a founder and former secretary of the French Creek Granite Merchandise Company, died December 10 at his home in Elverson, Pa. He was seventy-two. Mr. Noble retired in 1938.

William Semlar, formerly with the still division of the Esso Standard Oil Company Bayway refinery in Linden, N. J., for thirty-three years, died December 12 in Elizabeth, N. J. He was sixty-seven. Mr. Semlar retired in 1949.

Canadian Exports: Sept.

Exports of various products from Canada in September, 1950, as compared with September 1949, and during the January-September period of 1950, have been reported as follows:—

	September 1950	September 1949	Jan.-Sept. 1950
Abrasives, artificial, crude	$1,432,000	$814,000	$10,506,000
Acids	393,000	212,000	2,442,000
Artificial silk and products	773,000	114,000	3,911,000
Asbestos and products	6,038,000	4,228,000	44,297,000
Calcium compounds	116,000	124,000	972,000
Chemical products, other	3,472,000	971,000	30,033,000
Copper and products	8,615,000	7,192,000	64,788,000
Fertilizers	3,115,000	3,290,000	29,592,000
Lead and products	3,346,000	3,016,000	20,978,000
Medicinal preparations	433,000	433,000	3,369,000
Nickel	9,817,000	6,146,000	77,907,000
Paints and varnishes	410,000	263,000	2,786,000
Petroleum and products	72,000	48,000	212,000
Soda and sodium compounds	631,000	279,000	3,897,000
Vegetable fats and oils	363,000	487,000	2,944,000
Zinc and products	6,023,000	4,333,000	40,770,000

Drums for Sale by Navy

In sales catalog B-30, bids to be opened January 3, the Naval Submarine Base, New London, Conn., is offering among items for sale a lot of 240 steel drums.

Linde Air Products Offers Booklet

The Linde Air Products Company, a unit of Union Carbide & Carbon Corporation, New York, has published a new booklet, "Heat of Grinding Causes Materials to Melt and Fuse—Refrigeration Solves Problem." The booklet, which describes the use of liquid nitrogen to solve problems encountered in specialty grinding, can be obtained from any Linde office or by writing Linde Air Products Company, 30 East 42nd street, New York 17.

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Petroleum Derivatives

Both upper and lower field Pennsylvania crude rose by 15c. per barrel during the past week, but otherwise the market held to its own on price. Supplies of most materials were just as tight as they had been and the demand was going along at the strong levels of the recent past. There seemed to be no indications of any changes in the immediate future.

Petroleum toluol and xylol were as tight as ever and according to one source seemed to be tightening up even further. There was no "shopping" being done on price; consumers were glad to get the material if obtainable. Higher boilers and blends both remained tight, with the demand at high levels. There were no particular changes in the aliphatics. Demand was at good levels and while the supply was sufficiently high to accommodate the ordinary wants of the market, it was, for some materials, not strong enough to withstand a heavy influx of orders. Demand for both propane and butane was running ahead of supply, it was reported. The Winter demand was on and that was taking considerable amounts., Added to that was the fact that after the recent storm on the Eastern seaboard and adjacent areas, many conversions to gas were being made. Both paraffin and microcrystalline waxes were pretty much unchanged. Prices were holding. Demand was strong but the supply of both was not abundant.

Solvents and Diluents

Petroleum toluol and xylol showed no change for the better during the week and while one source stated that the general situation was no worse, it was reported in another direction that the general supply was probably a bit tighter. More and more users were said to be out seeking material from other than their regular sources of supply, but there was no more "shopping" being done on price.

The tightness that had been noted in the market for higher boilers continued during the week and there were no hopes that there would be any easing there for at least as long a time as anyone cared to predict. Demand was going along at a strong level but there were no changes reported in the price. Intermediate aromatic solvents held to formerly established prices and the supply continued on the tight side, a position in which it had been for some time. The demand was at a high point and appeared likely to stay there for the foreseeable future, at least.

Cleaners' Naphtha — The price range was unchanged during the past week, following the recent revisions. The demand was still holding up at good levels and the indications were that it would go on that way for the immediate future at least. The supply was about equal to the normal needs of the market. It was not entirely tight, but it could be called on the tight side.

Lacquer Diluent—Supplywise, the item was not up to the levels that producers would like to see. Some producers were reported to be having a bit of difficulty in satisfying the normal requirements of their customers. Prices were stabilized at the levels that were recently established. The demand was at a good point and from all reports it could be stated that it was expected to go on at good levels for some time.

Mineral Spirits—Supply was about strong enough to accommodate the normal requirements of the market, although not so great that it could stand any considerable influx of orders. The demand was at good levels, as it had been for some time, and was likely to stay that way for at least the foreseeable future.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended December 2 totaled 247,747,000 barrels, according to the Bureau of Mines. Compared with the total of 244,497,000 barrels for the preceding week, this represents an increase of 3,230,000 barrels, comprising an increase of 2,902,000 barrels in stocks of domestic crude and an increase of 348,000 barrels in stocks of foreign crude.

Market Trends

Prices Advanced

Crude oil, Pennsylvania upper and lower fields, 15c. per bbl.

Prices Reduced

None

(*For Current Prices see Page 9*)

The price listings were holding after the recent revisions.

Rubber Solvent — Although there was nothing that could be called on oversupply, the stocks of this material were sufficiently high to fulfill the normal needs of the market. The demand was at a good point and there was no reason at this time to think that it would fall off.

Stoddard Solvent—Supply at the moment was high enough to take care of the market's ordinary requirements, although it was not long. A sharp increase in ordering would probably put something of a pinch on producers. The demand was at a good point and appeared likely to stay that way for some time to come. There were no changes in the price listings following the recent revisions.

V. M. & P. Naphtha—Although without surplus, the supply at this time was high enough to handle the ordinary requirements of the market without any particular difficulty. The demand was continuing at a good point and was likely to stay that way for the immediate future at least. The price range was unchanged following the recent revisions.

Lighter Fractions

Heptane—Pricewise, the item was without change during the past week and there were no revisions indicated at this time. The demand was still going along at fairly good levels and was expected to go on that way. Supply was sufficient for the needs of the market.

Hexane — The supply was up to the levels of ordering during the week past. Demand was at reasonably good levels and the indications were that it would stay that way. There were no changes reported in price and there were none anticipated for the immediate future.

LPG's—Demand was reported running ahead of the supply for both butane and propane, with butane the scarcer of the two. The normal load of Winter demand was causing some of the heavy influx of ordering. Added to that was the recent storm that hit the East Coast and adjacent areas and was causing many to convert to gas. After the revisions that were made a short time ago, prices were stabilized during the week.

Pentane—Demand held at previously noted levels last week. Supply was sufficiently high to accommodate the needs of the market without any particular difficulty and the price range was unchanged.

Waxes

Microcrystalline—Prices were without change during the period and there were no indications that there were any revisions imminent. The demand was at good levels and all signs indicated that it would stay that way for some time to come. The supply was tight and there seemed to be no prospects of its easing appreciably in the immediate future.

Paraffin — Pricewise, the market was without feature last week and there were no indications of immediate changes in prospect. Demand was going along at good levels and appeared likely to go on that way, while the supply was tight at this time and did not appear likely to ease up by any appreciable extent.

Miscellaneous

Crude Oil—Increases of 15c. per barrel on Pennsylvania uppper and lower field crude were announced during the week. This brought the lower field price to $3.82 and the upper field to $4.25. Heavy demands on refineries were said to be responsible for the uppings.

Petrolatum — The call was at a high point last week. It had been there for some time past and the indications were that it was likely to stay that way for some time into the future. Supply was not strong and there were no hopes that it would improve much right now. Prices were holding at their recently established levels.

White Mineral Oils—Pricewise the market was without feature during the period under review. The demand was still going along at a good clip and the signs were that it would continue that way. Supply was not all that it might be

For Late Market Developments, See Page 4

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500	190/195	10 max.	2 to 2½	Nil	Nil
700	190/195	5 max.	2 to 2½	Nil	Nil
1035	195/200	2 max.	2 to 2½	Nil	Nil
23	180/185	6 max.	6 max.	20-25	55-65
36	180/185	5 max.	5 max.	30-35	85-95

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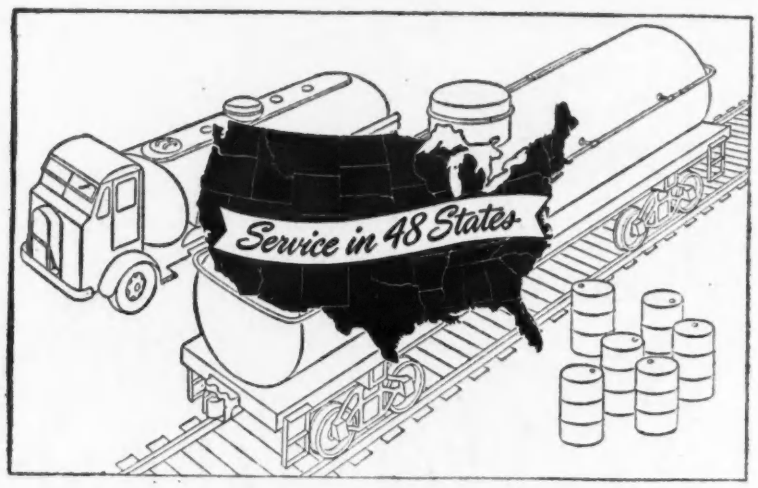

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but there were no signs of any immediate improvement.

Los Angeles Petroleum Market

Normal inquiry continues for the solvent and diluent materials with supplies reportedly adequate to meet all demand. Prices are unchanged, now maintained over a period of several months. Cleaning solvents, including Stoddard, quoted from 15.7c. to 19.7c. per gallon, tankwagon, ex-tax, f.o.b. Los Angeles basin area. Lacquer diluent quoted from 16.7c. to 20.7c. per gallon, same basis.

For lighter fractions, butane continues in very tight supply with resultant heavy demand for both L.P.G.'s. Butane quoted 6.3c. per gallon, tankcars, f.o.b. Los Angeles. Propane quoted 5.8c. per gallon, same basis.

Interest remains at a high level for refined paraffin waxed on this market as supplies continue to tighten. Price quotations are firm following the price increase in the last report. 122/128 ASTM, carload loose slabs, f.o.b. shippers refinery, San Francisco, quoted 7.45c. per pound. 142 147 ASTM, same basis, quoted 7.55c. per pound. 146 148 ASTM, same basis, quoted 7.65c. per pound. 157 162 ASTM, same basis, 8.3c. per pound. Tankcar prices listed at 7.05c., 7.15c., 7.25c. and 7.9c. per pound respectively.

Standards Bureau Adds Charles Beckett to Staff

Dr. Charles W. Beckett has been appointed to the thermodynamics section of the National Bureau of Standards, where he will be active in the preparation of table of thermal properties of gases. This project tabulates various thermodynamic properties of gases which are of importance in the design and operation of wind-tunnels and jet-engines.

Dr. Becket was a research associate of the American Petroleum Institute at the University of California from 1945 to 1947, where he did research on properties of hydrocarbons and statistical thermodynamics calculations. From 1948 to 1950 he was associate supervisor of the literature survey group at Ohio State University, also dealing with thermodynamics.

Natural Gasoline, LPG Production Gained in '49

Combined production of natural-gas liquids in 1949 totaled 6,561,000,000 gallons, an increase of 6 percent over the preceding year and a new record, according to the Bureau of Mines. Production of propane gained 12 percent and butane 31 percent compared with 1948.

Salient statistics of the natural-gasoline industry in the United States in 1949 as compared with 1948 follow:—

	1949[1]	1948
Production:		
Natural gasoline and natural-gasoline mixtures	3,007,528	2,979,412
LP-gases:		
Isobutane	175,301	196,354
Other LP-gases	2,243,135	2,012,717
Finished gasoline and naphtha	663,981	528,933
Other products	470,601	444,869
Total	6,560,546	6,162,287
Receipts from outside sources	181,264	172,333
Stock change at plants and terminals	+35,714	+49,824
Total supply	6,706,096	6,284,696
Shipments to refineries:		
Natural gasoline and natural-gasoline mixtures	2,770,418	2,757,680
LP-gases	513,162	431,926
Other products	481,380	491,015
Shipments to jobbers and trade outlets:		
Natural gasoline	183,554	172,579
For fuel	1,621,107	1,495,583
For chemical manufacture	285,314	285,165
Finished gasoline and naphtha	505,323	371,333
Condensate	8,850	8,407
Transfers of cycle products	103,747	80,402
Exports from plants	171,634	153,238
Losses	61,557	37,363
Total demand at plants and terminals	6,706,096	6,284,696
Stocks at plants, terminals, refineries:		
Natural gasoline	172,207	151,371
LP gases	49,228	44,147
Other products	65,453	38,614
Total	286,888	234,332
Value at plants:		
Natural gasoline thousands of dollars.	193,217	257,125
LP-gases thousands of dollars.	98,464	117,823
Finished gasoline and naphtha thousands of dollars.	51,677	52,414
Other products thousands of dollars.	26,792	31,615
Average per gallon cents.	5.7	7.4
Natural gas treated millions of cubic feet.	4,810,540	4,393,500
Average yield, light products except LP-gases per M cubic feet gallons	0.88	0.90
Average yield, all light products. gallons.	1.39	1.40
Sales to consumers for fuel and chemical uses:		
LP-gases	1,901,149	1,766,017
LR-gases[2]	935,450	970,784
Total	2,836,599	2,736,801
Exports of natural gasoline and LP-gases	236,650	216,294

[1] Preliminary figures.
[2] Liquefied refinery gases.

The Institute of Gas Technology, affiliated with the Illinois Institute of Technology, Chicago, is accepting applications for fifteen fellowships leading to both master's and doctor's degrees in gas technology.

Pantepec Oil Co. Names L. W. Storms President

Louis W. Storms, jr., has been named president of Pantepec Oil Company C. A. and its affiliate, Pancoastal Oil Company C. A., both in Caracas, Venezuela. He will take on his new post January 1.

Mr. Storms, a petroleum engineer and production specialist, was associated for five years with Creole Petroleum Corporation, before that with Standard Oil Company of New Jersey affiliates for eighteen years.

Oil Lease Forms Ready

New oil and lease offer and lease forms with major amendments have been prepared by the Bureau of Land Management, according to an announcement by Secretary of the Interior Oscar L. Chapman. These regulations signed recently become effective January 28, 1951. The new forms and rules are designed to accelerate the issuance of noncompetitive oil and gas leases on public domain lands, it was explained.

Amsco Appoints Mitchell

American Mineral Spirits Company, Chicago, Ill., has placed Fred M. Mitchell in charge of the concern's petroleum solvent sales for the upstate New York area. Mr. Mitchell, who will make his headquarters in DeWitt, N. Y., a suburb of Syracuse, will handle Amsco's tankcar sales to industry in this area.

Feldspar Output, Sales In 1949 Reported Down

Production of crude feldspar in 1949 declined 20 percent and sales of ground feldspar 24 percent compared with 1948 figures, according to the Bureau of Mines. They were the lowest since 1944 and 1945, respectively. Total values decreased 11 percent for crude and 13 percent for ground feldspar.

Factors contributing to this decline were the reduction in glass container shipments about the middle of the year, the general slackening of business activity, and increasing competition from nepheline syenite, aplite, and to some extent blast-furnace slag. Imports of Canadian crude feldspar in 1949 dropped nearly 50 percent.

Salient statistics of the feldspar industry in the United States in 1949 as compared with 1948 follow:

	1949	1948
Crude feldspar:		
Domestic sales:		
Long tons	369,378	460,713
Value	$2,278,441	$2,564,387
Average per long ton	$6.17	$5.57
Imports:		
Long tons	15,826	31,047
Value	$107,925	$219,785
Average per long ton	$6.82	$7.08
Ground feldspar:		
Sales by merchant mills:		
Short tons	386,707	506,451
Value	$5,609,101	$6,462,231
Average per short ton	$14.50	$12.76

Trade Briefs

Sinclair Refining Company, New York, has established four $2,500 graduate fellowships for research in chemistry, geology and petroleum production.

D. E. Burroughs, general credit manager of Shell Oil Company, New York, has been elected president of the American Petroleum Credit Association, succeeding A. E. Fletcher in the post.

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Agricultural Chemicals

Normal superphosphate at Carteret followed the advance in price recently made at Baltimore. Supply conditions at both points have tightened appreciably and the market is strong backed by high producing costs stemming from the late advance in sulphur. Triple superphosphate will be advanced on January 2. Ammonium nitrate has been advanced by two domestic producers and the eastern Canadian producer will make an advance effective on December 29. Nitrogenous process tankage is priced higher with the supply situation exceedingly tight. Curacao phosphate rock has been advanced at Atlantic posts. At least one producer did not follow the advance in ammonium sulphate prices.

In the pesticide classification 2,4-d and its isopropyl ester and 2,4,5-T and its isopropyl ester have been established at higher price levels. Producers of these materials as well as those who make BHC, DDT and other insecticides processed with benzol and chlorine are much concerned over the maintenance of output. The prolonged scarcity of these basic products has seriously affected production and there is no relief in sight.

Menhaden meal was priced higher. Demand has been satisfied with storage stocks as production ended about October 1. There were no important changes in packing-house by products. Dried blood looked a bit easier at the close of the week while bone meal and tankage remained about steady. Castor pomace was active with a fair amount of business placed on the unit basis for fertilizer use.

Nitrogenates

Ammonium Nitrate—Higher prices have been named in some domestic producing quarters. The price has been advanced $3 per ton to $61 carlots, works, for 33.5 nitrogen. Eastern Canadian nitrate will be advanced $6.50 per ton to $69.50 shipping point on December 29.

Ammonium Sulphate—Coke-oven material firm with available stocks tightly held. Bureau of Mines gives October production at 148,633,858 pounds, compared with 141,554,962 in the preceding month and 40,139,000 in October, 1949. October sales are placed at 142,077,230 pounds, against 108,684,478 in September and 31,859,300 pounds in October, 1949. Stocks on October 31 were 166,029,052 pounds, compared with 161,719,836 on September 30 and 97,704,300 pounds at the end of October last year.

Since reporting the advance last week, it is learned that at least one of the producers is still naming $32 per ton for bulk coke-oven material which would spread the current range from $32 to $45, according to seller and point of shipment.

Export shipments during September totaled 78,410,350 pounds, including 26,604,000 pounds to the Philippine Republic, 15,107,008 to Japan and 12,789,382 pounds to Cuba.

Castor Pomace—Active and firm, with sales to the fertilizer trade at $5.50 per unit of ammonia in bags, carlots, works.

Dried Blood—Priced at $9 per unit of ammonia here and at Chicago but not attracting much attention from buyers. The tone of the market appeared rather easy at the close of the week. Tankage was unchanged in price.

Fish Meal—October production of meal and scrap by firms which normally account for about 90 percent of the total output, amounted to 30,008 tons, compared with 32,257 for the same month in 1949, according to the Department of the Interior. During the first ten months of 1950 the quantity of scrap and meal processed totaled 184,913 tons, against 181,902 for the corresponding period in 1949. Production of menhaden meal and scrap in October was 4,413 tons, compared with 8,523 in October, 1949. Output for ten months in 1950 was 88,400 tons, against 105,226 for the same time last year. The market was higher last week, with sellers naming $130 to $135 per ton, Baltimore area.

Nitrogenous Process Tankage — Priced higher at $4.30 per unit, bulk, works, and ranging upward to $4.75. Stocks definitely short for any nearby shipment.

Phosphates

Phosphate Rock — Market strong, with production finding a steady outlet through domestic contract channels. So far the possible effect of cutback superphosphate output has not been reflected in the movement. It is asserted that the defense program may neutralize the influence of the serious shortage of sulphuric acid. Meanwhile, producing costs of rock are steadily mounting. Curacao rock has been advanced to $40 per ton.

September exports of Florida land pebble totaled 146,482 tons, including 39,384 tons to Japan; 21,449 to the Netherlands, and 19,913 tons to Canada, the latter country also received 20,977 tons of unspecified phosphate rock.

Superphosphate — Baltimore reported the market for normal firm and tight at 81c. per unit of a.p.a. The price at Carteret, New Jersey, has been advanced 6c. to 76c. per unit of a.p.a., with production heavily under contract. Triple will be advanced 3c. per unit to 87c. East Tampa, Florida, on January 2, 1951.

September exports of normal totaled 48,603,830 pounds, and included 37,343,630 pounds to Canada and 11,200,000 to Cuba. Exports of triple in September were 3,036,618 pounds, Cuba taking 1,105,918.

Potashes

Consuming demand has remained at a high level since the turn of the month, and so has production. Lack of transportation has caused some irregularity in the movement of shipments from works, although the supply of boxcars appeared better last week than in the preceding period.

Exports of muriate in September amounted to 18,612,330 pounds, including 11,069,370 pounds to Canada, 3,161,200 to Cuba and 3,117,760 pounds to Brazil.

Los Angeles Fertilizer Market

Los Angeles.—The local trade reports activity as exceptionally light during the past week with buying interest steadily falling off. No changes have been reported in the supply picture for any items and prices in the majority remained steady.

Ruling prices were:—Ammonia nitrate, $69.94 per ton, domestic, f.o.b. Los Angeles. $71.55 per ton for Candian material, f.o.b. Los Angeles. Ammonia Phosphate, $65.50 per ton for 16/20 grade, f.o.b. Los Angeles; $53 per ton at source. $90.10 per ton for 11/48 grade, f.o.b. Los Angeles. Ammonia sulphate, $49 per ton bagged, f.o.b. Los Angeles. Canadian material $49 per ton, f.o.b. Los Angeles bagged. Blood meal, $7 per unit of ammonia at source. Bone meal, $70 per ton, domestic, steamed, 1/30 meal, f.o.b. Los Angeles. Calcium nitrate, $44.25 per ton. 15½ percent nitrate, c.i.f., Los Angeles Harbor. Fish meal, $126.75-$130 per ton for 65 percent sardine, f.o.b. Los Angeles. $114 per ton nominal for 60 percent tuna, f.o.b. Los Angeles. $129.50 per ton for 70 percent Canadian herring, f.o.b. Seattle. Nitrate of soda, $53 per ton in 100-pound bags, f.o.b. Los Angeles Harbor. $48 per ton in bulk. Potash muriate, 50½c. per unit in bulk, f.o.b. Trona. Potash sulphate, 95 to 98 percent K_2SO_4, 86c. per unit, f.o.b. Trona. Superphosphate, $23.70 per ton in bulk, f.o.b. Los Angeles. $4 extra for bags. Triple, $68.50, per ton bulk for 47 percent a.p.a., f.o.b. Los Angeles. $4 additional for bags. Ammoniated, $28 per ton bulk, 3/16 grade, f.o.b. Los Angeles. Tankage, wet rendered, fertilizer grades, $5.35-$5.75 per unit of ammonia, f.o.b. producing plant.

Pesticides

Prospects for maintenance of production of BHC or DDT do not appear favorable at the present time. Other insecticides and weed killers based with benzol and chlorine are similarily affected. It is pointed out that benzol will probably be given preference in the manufacture of synthetic rubber to the detriment of the manufacture of insecticides and styrene toys. The prolonged shortage of chlorine has already had its effect on production of many synthetic insecticides.

2,4-D—Priced higher at 53c. per pound in carlots and at 58c. in smaller quantities, works, freight equalized. Isopropyl ester also advanced to 59c. per pound in carlots and to 64c. in l.c.l. works. Production has been seriously affected by the inability to secure benzol and the present outlook is

For Late Market Developments, See Page 4

Market Trends

Prices Advanced

2,4-D, 10c. per lb.
isopropyl ester, 5c. per lb.
Fish meal, menhaden, $2.50 per ton.
Nitrogenous process tankage, 15c. per unit of ammonia.
Phosphate rock, Curacao, $5 per ton.
Superphosphate, normal, Carteret, 6c. per unit of a.p.a.
2,4,5-T, 10c. per lb.
isopropyl ester, 10c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100—August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 18, 1949
87.1	87.1	83.5	81.6	81.6

(*For Current Prices see Page 9*)

not favorable toward improvement. September output totaled 907,032 pounds, compared with 1,066,741 in the preceding month. The market closed the week firm and tight.

2,4,5-T—This material is priced higher at $1.60 per pound for carlots and at $1.65 for less. The isopropyl ester is also priced higher at $1.70 per pound in carlots and at $1.75 for less, all prices f.o.b. the works. Shortage and higher prices for raw materials has kept production down and prospects for any nearby improvement are excedingly vague at the present time.

Sulphur

Market continued firm at the late advance with demand heavy and the supply situation tight. Transportation facilities have not proved much of a problem to date.

Production of sulphur ore in Italy in the first 6 months of 1950 set a postwar record of 820,560 metric tons. Output of crude fused sulphur totaled 103,250 tons, compared with 85,360 tons in the corresponding period of 1949. Production of ground sulphur (for agricultural use) was 12,650 tons, compared with 12,570 tons in the 1949 period. The industry, about 70 percent in Sicily, is hampered by uneconomic methods of operation and old equipment, which result in very high production costs and make it difficult for Italian sulphur to compete in foreign markets, even those in the Mediterranean area. Sicilian interests have requested ECA assistance to modernize the industry.

Process Equipment Dealers Meeting Scheduled Tonight

The Process Equipment Dealers Council will hold its final meeting of 1950 tonight at the Bristol hotel, New York. Dinner will be served at 7 p. m.

Int'l Minerals Awards Contract For Fort Worth Fertilizer Unit

J. R. Murphy & Co., Fort Worth, Tex., has been named general contractor for the chemical fertilizer plant to be constructed in North Fort Worth by the plant food division of International Minerals & Chemical Corporation, Chicago, Ill. Equipment for the plant will be furnished by A. J. Sackett & Sons of Baltimore, Md. Sturtevant Mill Company of Boston will supply equipment for the superphosphate plant; steel work will be supplied by Mosher Steel Company of Dallas, and the conveyor system will be installed by Barber-Greene of Aurora, Ill.

Pfizer Issues Data on Terramycin Use in Animal-Growth Experiments

Descriptions of the effects of antibiotic-fortified feeds on the growth and livability of poultry and swine have been compiled in a new thirty-page brochure just issued by Charles Pfizer & Co., Brooklyn, N. Y. Entitled "Bi-Con Feed Supplements," the booklet describes experiments with penicillin, streptomycin, aureomycin and terramycin, stressing the results shown with the last-named antibiotic.

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Textile and Leather Chemicals

Firmness continued to feature the textile and leather chemicals market last week. While trading in most materials slackened as usual at this season, market was fundamentally strong. Egg derivatives were strengthened by the sharp price rise of eggs. Edible egg albumen was advanced drastically and yolk also was higher. Corn dextrin, starch and tanners sugar were firmer, advancing fractionally. Increased cost of castor oil raised the price of sulphonated grades. Price index advanced 17 points.

Increased consuming inquiry for potato starch improved the tone of this market and prices were unchanged but steadier. Tapioca flour was firm at primary sources which was reflected locally.

The chemical group continued strong at unchanged quotations. Supplies of bichromates were scarce and demand exceeded supplies. Scarcity of zinc and government controls on civilian use effective January 1 stiffened sodium hydrosulphite and higher price schedules were expected to be announced shortly for delivery during the first quarter next year.

Cotton crop for 1950 was estimated at 9,884,000 bales as of December 1 by the Crop Reporting Bureau. This was 16,000 bales below the November 1 forecast and compared with 16,128,000 bales produced in 1949 and 1939-48 average of 11,599,000 bales. Abandonment July 1 was indicated at 4.3 percent leaving 17,850,000 bales for harvest. With the exception of 1945 and 1946, this is the smallest harvested acreage since 1884.

Activity in the wool industry in September was below that of August but substantially above September, 1949, according to the Census Bureau. A total of 323,000,000 pounds of apparel class wool was reported consumed in the first thirty-nine weeks of 1950, 34 percent more than in the same period last year. Consumption of carpet class wool (scoured basis) increased 24 percent from 118,000,000 pounds last year to 146,000,000 pounds this year. Wool top production totaled 216,000,000 pounds during the first nine months of 1950, compared with 140,000,000 pounds for the same period last year.

Market Trends

Prices Advanced

Castor oil, sulphonated, 1c. per lb.
Corn dextrin, 20c. per 100 lbs.
starch, 10c. per 100 lbs.
tanners sugar, 10c. per 100 lbs.
Egg albumen, edible, 20c. per lb.
powder, 20c. per lb.
Sodium diacetate, 1½c. per lb.
Yolk, domestic, 2c. per lb.
Chinese, 3c. per lb.

Prices Reduced

None.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 16, 1949
271.5	254.5	247.8	186.0	289.4

(*For Current Prices see Page 9*)

Chemicals

Acetic Anhydride—Deliveries against contracts were reported in active request. Market was firm and unchanged. Active inquiry was reported for early next year requirements.

Bichromate—Scarcity of supplies continued to restrict volume of business. Demand was active and was larger than available supplies. Production was sold up. Prices were unchanged and firm.

Sodium Acetate—Market was steady at the recent advance. Consuming demand was active and kept pace with output. Anhydrous was held at 11½c. per pound, drums, works, carlots, and up to 13c. for lesser quantities.

Sodium Diacetate—Higher cost of basic materials resulted in an advance of 1½c. per pound. Technical was raised to 13½c., drums, works, carlots and smaller quantities up to 15c. Anhydrous was quoted at 15½c., drums, works, carlots and 16c. less carlots.

Sodium Hydrosulphite — Tight supply condition continued to feature this market. Scarcity of zinc and government's curbs on civilian use, effective January 1, has stiffened the market and tendency of prices is upwards for first quarter next year.

Sulphonated Oils—Further price advance of castor oil, which was lifted 2c. per pound, due to the scarcity and increased cost of castor beans, resulted in a mark up of 1c. per pound for sulphonated grades. Quotations for 50 percent ranged from 15½c. to 16½c. per pound, drums, as to quantity, and 75 percent, 20½c. to 21½c., same basis. Sulphonated tallow was firmer with recent advance of the basic material.

Sizing Materials

Blood Albumen—Steady consuming demand was noted for dried soluble blood. Supplies were limited and firmly held. Albumen was in fair request and steady Prices were without change.

Corn Dextrin—All grades were advanced 20c. per 100 pounds last week. Market was firmer with increased cost of production. Demand was keen for 30-day requirements. Gum was lifted to $8.15 per 100 pounds, paper bags, carlots, New York basis; canary, $7.89; dark, $7.99, and white, $7.74, same basis. Less carlots were 15c. per 100 pounds more. Producers accepted orders only at the price on the date of shipment.

Corn Starch—Market was stronger and quotations were raised 10c. per 100 pounds. Trading continued active for prompt delivery. Pearl starch was advanced to $6.37 per 100 pounds, carlots, and powdered, to $6.48. Less carlots were 15c. per 100 pounds higher. Orders were booked only at the price on the date of delivery. Visible corn supply continued to gain. Stocks were increased 2,173,000 bushels to 50,392,000 bushels for the week ended December 9, compared with 45,439,000 bushels for the same time last year, according to the Chicago Board of Trade.

Egg Albumen—Steady advance in the cost of eggs caused producers of edible flake to raise prices several times last week, and the market registered a net gain of 20c. per pound. Flake was boosted to $1.60 to $1.62 per pound, depending upon quantity and powdered to $1.64 to $1.66, same basis. Trading was active for prompt delivery. Demand for technical was light and spotty. Good quality ranged from 76c. to 80c. per pound, according to quantity. Egg production in November was estimated at 3,902,000,000 by the Bureau of Agricultural Economics, 1 percent more than November last year and 43 percent higher than the 1939-48 average. The continued heavy output brought production during the first 11 months of this year to 55,157,000,000, 6 percent higher than the same period in 1949, and 17 percent larger than the 1939-1948 average. fective January has stiffened sodium

Egg Yolk—Higher cost of eggs also was reflected in yolk, but not to the extent of edible albumen. Domestic yolk was lifted to $1.16 to $1.18 per pound, according to quantity. Consuming demand was active. Chinese yolk also was in better request, and quotations were advanced to 90c. to 92c. per pound, duty paid for spot delivery.

Potato Starch — Improved inquiry for prompt delivery created a steadier tone in the market. Carlots were maintained at 5c. per pound, f.o.b. mills, and moderate sales were reported this level. Demand for less carlots was spotty for immediate needs. Prices were maintained at 7½c. to 7¾c. per pound, exwarehouse, depending upon quantity. Production and Marketing Administration reported sales for domestic delivery of 763,670 pounds of potato starch at 4.45c. to 5.1c. per pound, f.o.b. storage point, plus charges during the period October 29-November 15.

Sago Flour—High cost of replacements has restricted business for shipment. This kept supplies on spot light, which were firmly held at 7¾c. to 8c. per pound, depending upon quantity.

Tapioca Flour—This market was firm, with the strength at primary sources despite spotty demand. Supplies on the spot were well held at former levels. Brazilian market was firm at unchanged prices. Offers for shipment from Siam continued scarce. Brazilian high grade on spot was quoted at 7½c. to 7¾c. per pound; mediums, 6¾c. to 7c. and low, 6¼c. to 6½c. per pound, according to quantity.

Tanning Materials

Cutch — Market was unchanged and steady. Consuming inquiry for replacements was reported spotty.

Quebracho Extract — Firm conditions prevailed in the market. Trading was reported spotty, mainly for prompt shipment. Quotations were unchanged and steady.

Wattle—Bark and extract replacements commanded a great deal of interest. Offers for shipment continued scarce and were firm at prevailing prices. Freight rates from Africa have been advanced 15c. percent effective January 1.

For Late Market Developments, See Page 4

DuPont Plans 'Fiber V' Output at Kinston, N. C.

A decision to use its 635-acre tract on the Neuse River, near Kinston, N. C., for the manufacture of a new synthetic textile fiber known tentatively as "Fiber V," instead of nylon, has been announced by E. I. du Pont de Nemours & Co., Wilmington, Del. The tract was purchased in September.

The du Pont company said that the change in plans was dictated by several factors. First, extensive market studies have led to the conclusion that "Fiber V" should be put in commercial production as soon as possible. Second, it was decided that the additional nylon yarn capacity, planned originally for the Kinston project, can best be provided, under the present construction materials situation, through technological improvements in production facilities and expansion at existing nylon yarn plants at Seaford, Del.; Martinsville, Va., and Chattanooga, Tenn.

Design of the plant for "Fiber V" is under way and construction is expected to start some time next year. Technically, the material is a condensation polymer obtained from ethylene glycol and terephthalic acid. It is not chemically related to nylon. Quantities of both continuous filament yarn and staple required for development work are being made in an experimental operation at the Seaford, Del., plant.

Phila. Textile Colorists Hear Fluorescence Talk

The Philadelphia section of the American Association of Textile Chemists and Colorists at its December 8 meeting heard a discussion of the uses of fluorescence, phosphorescence and radioactivity in the textile industry by Henry E. Millson, assistant director of applicant research, Calco Chemical Division, American Cyanamid Company, Bound Brook, N. J.

Highlighting his talk with a series of demonstrations and exhibits, Mr. Millson discussed the use of radio isotopes to study the absorption of trace metals by wool fibers and the behavior of sequestering compounds. He described and demonstrated the use of fluorescent materials in signs, costumes, decorations and wearing apparel. He also explained the present day usage of optical bleaches to make fabrics appear whiter and brighter.

Detrex Moving Eastern Sales Offices to N. J.

Detrex Corporation, Detroit, Mich., has revealed plans to move its eastern sales division from the Empire State Building, New York, to newly-leased space at 39 Park place, Englewood, N. J.

At the same time, the company announced publication of a new folder describing "Detrex 10," its multi-purpose cleaning chemical. The compound is said to be useful as a medium-duty soak tank cleaner, as an electrolytic cleaner for ferrous metal parts and as a water conditioner for all types of water-wash paint spray booths. Copies of the folder are available from Detrex, Box 501, Detroit 32, Mich.

Columbia Chemical Names Lee Cincinnati Sales Head

Columbia Chemical Division of Pittsburgh Plate Glass Company, Pittsburgh, Pa., has appointed J. Calvin Lee district sales manager at Cincinnati, Ohio. He succeeds Martin Low who has retired. Mr. Lee has been associated with Columbia sales staff at Cincinnati since 1937.

In conjunction with the new appointment, the firm announced that its Cincinnati headquarters have been moved from 715 Gwynne boulevard to 3903 Carew Tower.

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Coaltar Chemicals

Intermediate prices continued to move upward last week, as more items, reflecting higher raw material costs, were adjusted upward to partially offset the increased cost of basic materials. Imported cresylic acid and imported naphthalene prices last week responded to the previous week's advance in domestically produced material by moving up another 2½ cents per gallon on cresylic and ½ cent per pound on naphthalene. Phthalic anhydride was upped 1½ cents from the low side of the range. In some quarters phenol was advanced another ¾ cent, and anilin and monochlorobenzene another 1 cent.

Higher alkali and naphthalene costs were reflected in an upward revision of betanaphthol prices by 1½ cents per pound. In addition, higher sulphuric acid and ammonia prices contributed to the higher cost of producing the various naphthol sulphonic and amino sulphonic acids, several of which were upped in some quarters last week. The index advanced 2.6 points, becoming 133.7.

Among those intermediates on which price movements upward had been initiated in some quarters earlier in the month, and which by presstime last week had become industry-wide, were betanaphthol, benzaldehyde, anilin, monochlorobenzene, benzidin hydrochloride, paratertiarybutylphenol, dianisidin, diphenylamine, metanitroanilin, metaphenylenediamine, metatolylenediamine, orthonitrophenol, orthotoluidin, maleic anhydride, tolidine base, and methylphenylpyrazolone.

Meanwhile upward price adjustments were initiated on several other intermediates, but as yet had not become industry-wide, although it was felt that most of them would be so by the year-end. Items in this status were such materials as dimethylanilin, dinitrobenzene, nitrobenzene, dinitrophenol, alphanaphthol, alphanitronaphthalene, dinitrotoluene, para-aminophenol, Schaeffer's salt, G salt, sodium metanilate, sodium naphthionate, metanitroparatoluidin, and orthochloroparanitroanilin.

The American Iron and Steel Institute reported production for the week ended December 16 as 101.3 percent of the theoretical capacity, equivalent to the production of 1,953,800 tons of ingots and castings, compared with 1,938,400 tons the previous week, and 1,734,700 tons one year ago.

Basic Products

Benzol—Prices in the industry were still held to 30 cents per gallon at several shipping points, in some quarters. At other shipping points the market ranged from 35 to 37 cents per gallon. At some of the shipping points where the unchanged 30-cent price was still in effect, such as Pittsburgh, Cleveland, and Chicago, most producers were quoting 35 cents. Whether or not the market as a whole would rise to levels generally 5 cents higher, was uncertain at presstime.

The price pattern on coaltar source benzol, toluol, and xylol as of presstime December 15 was as follows:—

	Benzol	Toluol	Xylol
Bethlehem, Pa.	.37	.32	.33
Birmingham district	.30	.30	.30¼
Chicago district	.30-.35	.33	.33½
Cleveland district	.30-.35	.32¾	.33
Geneva, Utah	.30	.25	.25
Hamilton, Ohio	—	.32	.32
Johnstown, Pa.	.35	.30	.31
Lackawanna, N. Y.	.37	.33	.33
Lone Star, Tex.	.37	.31	.31
Lorain, Ohio	.30	.31	.31
Minequa, Colo.	.35	.32	.34
Philadelphia, Pa.	.37	.33½	.33
Pittsburgh district	.30-.35	.30	.30-.33
Sparrows Point, Md.	.37	.32	.33
Syracuse, N. Y.	.37	.30½	.30½
Terre Haute, Ind.	.35	.33½	.35
Wyandotte, Mich.	.37	.33	.33
Youngstown, Ohio	.35	.30½	.30½

Coke By-Products

Total estimate of by-product coke-oven operations in the week ended December 15 indicate the following output of by-products from that source:—

Ammonia liquid, NH_3	lbs.	952,580
Ammonia sulphate	lbs.	32,883,606
Benzol	gals.	3,210,066
Coaltar	gals.	14,614,936
Creosote oil	gals.	587,207
Naphthalene, crude	lbs.	1,996,504
Pyridin, refined	lbs.	23,488
Toluol	gals.	606,780
Xylol	gals.	156,583

Market Trends

Prices Advanced

Acid, cresylic, imported, 2½c. per gal.
Maleic, 5c. per lb.
Picric, NF, 5c. per lb.
Anilin, 1c. per lb.
Anthraquinone, 5c. per lb.
Benzaldehyde, 3c. per lb.
Benzidin hydrochloride, 9c. per lb.
Betanaphthol, 1½c. per lb.
Dianisidin, 15c. per lb.
Diphenylamine, 2c. per lb.
Maleic anhydride, 5c. per lb.
Metanitroanilin, 8c. per lb.
Metaphenylenediamine, 6c. per lb.
Metatolylenediamine, 20c. per lb.
Monochlorobenzene, 1c. per lb.
Naphthalene, imported, ½c. per lb.
Orthonitrophenol, 9c. per lb.
Orthotoluidin, 2c. per lb.
Paranitrophenol, 4c. per lb.
Phenylmethylpyrazolone, 9c. per lb.
Tar acid oils, 4½c. to 12½c. per gal.
Tobias acid, 5c. per lb.
Tolidine base, 10c. per lb.

Prices Reduced

Aminoazotoluene, 9c. per lb.
Xylidins, mixed, 6c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 16, 1949
133.0	131.1	123.2	110.1	110.1

(*For Current Prices see Page 9*)

Demand continued to mount, against a dwindling supply of benzol for other than military enduses, such as the synthetic rubber program, creating a severe scarcity of monochlorobenzene and other benzol derivatives for the manufacture of a wide range of chemicals, such as phenol, plastics, insecticides, and dyestuff intermediates. In the event of full national mobilization, benzol was felt to be one of those items first to be affected with full control regulations.

Creosote—This item flowed more evenly and with less pressure of demand behind it than any of the other basic coaltar products. Supplies were regarded as ample and moved steadily into consuming channels. Prices were unchanged and were expected to hold to present levels during the first quarter of next year.

Cresols—Industry prices for the coming quarter were up 2c. per pound, as reported in the previous issue, and this applies to material supplied in both returnable and non-returnable drums, as well as in tankcars. Supplies were acutely scarce, with producers operating against a heavy backlog of demand.

Cresylic Acid — Following the upward price movement in domestic cresylic acid reported the previous week, imported material was advanced in price to a range of $1.25 to $1.30 per gallon. Prior to the domestic price increase, imported acid was higher priced than domestic, but supplies were short and the price could be commanded. Indications in the trade were that imported acid prices would continue to hold at levels somewhat in excess of the domestic product. Imports have recently been more substantial than shipments of a few weeks ago, and domestic output was likewise higher, all of which contributed to a mildly better supply position. However, the demand was so far ahead of supply that the item remained critically short.

Naphthalene—Domestic prices on the 78-degree material carried a ¼c. per pound spread between different producers. Last week major producers advanced prices 1c. per pound, but one producer found that increased costs justified an upward price adjustment of 1¼c. On refined naphthalene, which was upped 1½c. per pound, there was no such price spread.

Imported naphthalene was quick to respond to the price trend in domestic material, and the imported market currently stood in the range of 5c. to 5½c. per pound. Recent imports have increased in size substantially with the higher prices paid, which tended to confirm the generally held belief that naphthalene was not so scarce at foreign sources as claimed, but was available in large volume, the holdup in offerings being essentially a holdout for higher prices.

Phenol—Tar distilled USP natural phenol was priced at the same level as the synthetic material. Prices were firm at the higher levels established during the past few weeks, in which synthetic material moved up 1¾ cents per pound and the natural material 1¼ to 2 cents. Demand was far in excess of supply, and the situation was not expected to see any improvement in the foreseeable future. In fact, the supply position was likely to get worse because of the increasingly heavy drain on benzol for direct or indirect military enduse, especially in the direction of synthetic rubber via styrene.

Pyridin—There was no change in the critically short supply position of this

For Late Market Developments, See Page 4

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crystal free neutral oil
tar acid oils
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picolines
lutidines
quinoline

naphthalene — (crude and refined)
ammonium sulphate
ammonium thiocyanate
acenaphthene
beta methyl naphthalene
fluorene

item. Demand was very heavy, no material was available for spot shipment, and contract consumers or well established accounts could not get more than enough to meet their immediate requirements.

Solvent Naphtha—The 3 cents per gallon price advance initiated in the petroleum industry some weeks ago, was followed by a 3 cent advance in coaltar solvent naphthas at the beginning of this month. Currently, material was priced in the range of 31 to 34 cents per gallon.

Toluol—The 5 cents per gallon price advance initiated in the industry the previous week, had by last week become industry-wide. Under the new price schedules toluol was variously priced on an f.o.b. shipping point basis, from 26 cents per gallon to 33½ cents per gallon, depending upon the shipping point. Prices in detail are tabulated on the first page of this market report.

Supplies were severely critical, and there was no expected relief from the overall shortage. Some easing of a temporary nature was thought possible in the event of all-out war mobilization, during the period of changeover from domestic to military production.

Xylol—Prices, which by presstime had been upped 4 cents per gallon generally, brought the quotations on xylol at several shipping points to the same level as the toluol quotations. A price spread of 3 cents per gallon existed in the Pittsburgh district, as those producers who some months ago advanced their schedules 3 cents above competition, held to the same differential under the new upward adjustment. Prices ranged at various shipping points from 25 to 33½ cents per gallon on an f.o.b. shipping point basis. Supplies last week were just as critical as they have been over recent months, and no improvement was expected, except for a possible lull during conversion to a full war economy.

Intermediates

In the previous issue we reported that in addition to the list of items shown in the market price box and covered in the market reports, that there were several intermediates on which upward price adjustments had been initiated in some quarters in the industry, but which could not yet be shown in the price box because as yet not all producers had gone along with the price advance. This was so because cost relationship to selling price studies had not as yet been completed in some quarters.

Last week saw a number of these items reach the point where the initiated price advances became industry-wide. Items which last week showed advances in the market as a whole included benzaldehyde up 3 cents per pound, anilin up 1 to 2 cents, paratertiarybutylphenol up 1 cent, benzidin hydrochloride up 9 cents, dianisidin 15 cents, diphenylamine up 2 cents, metanitroanilin 8 cents, metaphenylenediamine 6 cents, metatolylenediamine 20 cents, monochlorobenzene 1 to 2 cents, orthonitrophenol 9 cents, orthotoluidin 2 cents, paranitrophenol 4 cents, methylphenylpyrazolone 9 cents, NF picric acid 5 cents, tolidin base 10 cents, maleic anhydride 5 cents maleic acid 5 cents, and phthalic anhydride 1½ cents.

Meanwhile, last week saw initial price trends upward in mixed and straight Cleve's, Broenner's, Nevile and Winther's, gamma, F, Chicago, and a number of other naphthalene derived sulphonic and aminosulphonic acids. Other intermediates on their way up included alphanaphthol, alphanitronaphthalene, dimethylanilin, dinitrobenzene, dinitrophenol, both crude and purified dinitrotoluene, G salt, nitrobenzene, orthonitrotoluene, paraminophenol, Schaeffer's salt, sodium metanilate, and sodium naphthionate.

Back of all these price changes, which at first glance might seem to be many, was the higher price producers had to pay for basic chemical ingredients. The great bulk of the price advances reported the previous week, price advances completed in the industry last week, and price rises initiated but not completed in the market last week were due solely and directly to past price movements in basic raw materials. Producers could point to the steady price position most intermediates have maintained in recent months, against which there were repeated price increases in such basic raw materials as naphthalene, benzol, chlorine, ammonia, phenol, and caustic soda.

And back of the price increases in these basic items which are directly responsible for the current advance in intermediates, stood the higher wage scale which these industries had to pay for labor sometimes under the threat of a strike or after a strike of long duration. An added factor was the mounting cost of shipping material produced or of having

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Alphanaphthol—This item, which for a long period remained firm in price despite steadily increasing raw material and manfacturing costs, was advanced 8c. per pound in some quarters in a move to partially offset the greater cost of production. Alkalies and naphthalene were upped repeatedly since the last price change effected in this item.

Alphanitronaphthalene—In some quarters last week this item was priced 4c. per pound higher than former levels in an attempt to partially offset the higher cost of raw materials. Under the new schedule the item was priced at 41c. per pound.

Aminoazotoluene—This item was currently priced in some quarters 9c. per pound lower than schedules prevailing in some sections of the market. Under the new price schedule effected last week the item was quoted at 94c. per pound.

Anilin—The 1c. price advance which was initiated in this market at the beginning of the month had by last week become industry-wide. This was followed by an additional rise of ¾ cent in some quarters, and a full cent in others. Back of the price rise was the higher price of benzol, together with repeatedly increased raw materials shipped in due to higher freight rates.

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Chloranil—This item was advanced 5c. per pound last week in line with action taken in some quarters earlier in the month. Under the new price schedules carlots were quoted at 37c. per pound and less than carlot quantities at 38c. Demand was strong against available supplies, but the short position of supplies was not due to a lack of production facilities, but rather to the benzol shortage.

Monochlorobenzene—A price movement initiated at the beginning of the month in which this material was advanced 1c. per pound, became industry-wide last week. This was followed by an additional rise of 1 cent per pound in some quarters. Meanwhile, benzol advanced 5c. per gallon in most quarters and still more in others, which pretty well offset the price advance on the item. The 1c. upward adjustment, however, without the recent benzol increase, would not have been sufficient to offset the accumulated higher raw material and manufacturing costs under which producers were operating. The item was currently priced at 9c. to 10c. per pound in tankcars.

The very critical shortage of benzol was such that supplies of monochlorobenzene for the manufacture of the wide variety of chemicals and intermediates made from it were far from being enough to go around. Consequently producers of insecticides, plastic producers dependent upon phenol and styrene, and dyestuff intermediate manufacturers were in the uncomfortable position of having ot operate under curtailed production schedules limited by the amount of benzol or monochlorobenzene which they could obtain.

Phthalic Anhydride—Consumers having noted last week's higher price schedule on naphthalene produced domestically, and the higher price demanded for imported material, were looking forward to higher priced phthalic anhydride. Consequently a stepped up tempo of phthalic ordering was expected.

Phthalic was advanced 1½ cents per pound, producers previously quoting 17½ cents, moving up to 19 cents and the 3 cent per pound price spread which has existed for weeks in the market, narrowed to 1½ cents. However, further upward adjustment of prices, particularly with respect to the high side of the range, was expected to develop at or before the year-end.

Demand for phthalic continued heavy, and production units were, for the most part, operating at full capacity. The item was generally regarded as in short supply, but it was nowhere nearly as critical as was the supply position of benzol derivatives.

Tar Acid Oils—These blends of neutral oil and cresylic acid were advanced last week to a higher price level, the increase in any given oil being dependent upon the cresylic content. Prices were adjusted upward in line with the calculated effect of the new higher prices prevailing on cresylic acid and neutral oil. In the case of the 15 percent tar acid oil, tankcars were quoted at 40 cents per gallon, 50 cents in drum carlots, and 52 cents in less than carlot drum quantities. The 25 percent oil in tankcars was listed at 46½ cents per gallon, drum carlots at 56½ cents, and less drum carlot quantities at 58½ cents. The 50 percent oil in tankcars was priced at 62½ cents per gallon, 72½ cents in drum carlot quantities, and 74½ cents in less than carlots. The other percentage grades were adjusted upward accordingly.

Trade Briefs

Pennsylvania Salt Manufacturing Company, Philadelphia, has entered the aerosol insecticide field with a new twelve-ounce bomb-type package under its "Knox Out" label.

H. L. Dahm, president of G. S. Robins & Co., St. Louis, Mo., has been elected a director of the Better Business Bureau of St. Louis to represent the chemical group for a two-year term.

Venezuelan Development Corporation has begun a study to determine the economic prospect of a plant to produce chlorine and its derivatives, with domestic marine salt reserves serving as the raw material.

Arsenic 1949 Consumption, Imports Lowest Since 1922

Apparent consumption and imports of white arsenic in 1949 plunged to the lowest levels since 1922, according to the Bureau of Mines. The near-impasse in the industry was attributed to the continued strong trend in consumer preference for organic insecticides over arsenicals, coupled with more ready availability of the organics at reduced prices.

No exports of white arsenic were reported by producers during 1949. Producers' stocks were the highest on record. Output of white arsenic reached the lowest point since 1933, with the exception of the strike-ridden year 1946.

Production and shipments of white arsenic by United States producers in 1949 as compared with 1948 are as follows:—

	1949	1948[3]
Crude:		
Production, short tons.[1]	12,289	17,213
Shipments:		
Short tons	9,597	13,749
Value[2]	$713,984	$1,141,213
Refined:		
Production, short tons	506	1,426
Shipments:		
Short tons	584	1,216
Value[2]	$50,527	$119,054
Total:		
Production, short tons	12,795	18,639
Shipments:		
Short tons	10,181	14,965
Value[2]	$764,511	$1,260,267

[1] Excludes crude consumed in making refined. Includes crude white arsenic equivalent of compounds directly from ores, flue dust, and speiss as follows:—1949, 26, and 1948, 88.
[2] Partly estimated.
[3] Revised figures.

Blaw-Knox Co. Authorized To Use German Processes

The chemical plants division of Blaw-Knox Company, Pittsburgh, Pa., has completed arrangements with the Linde Eismaschinen Company of Germany, authorizing it to design and construct complete plants employing low temperature processes.

In making the announcement, E. W. Forker, in charge of the division, reports that among the important industrial processes made available by this arrangement, is one for the tonnage production of oxygen. Tonnage oxygen is, among other uses, of growing importance to steel making and chemical processing.

Among other processes made available by this arrangement between Blaw-Knox and the German company, are the low temperature separation of industrial gas mixtures, such as coke oven gas; and the separation of rare gases, such as argon, from the air.

Orleans Co. Organizes Affiliated Mexican Firm

Orleans Company, New York, has announced the formation of a Mexican affiliate, Productos Orleman, S. A., at San Juan de Letran 21, Mexico 1, D. F. The telephone number is 21-59-96. The new corporation, under the direction of W. Edward Leaman, jr., executive vice-president of Orleans Company, will engage in the manufacture of dyestuffs and chemical products in Mexico for distribution throughout that country and elsewhere in Latin America. The concern will also act as a distributor of chemicals, dyestuffs and raw materials throughout the western hemisphere.

Patterson Foundry Develops New Disintegrating Conical Blender

The Patterson Foundry & Machine Company, East Liverpool, Ohio, has developed a new disintegrating conical blender. Chemicals, pigments, powdered metals, resins, drugs, food products, etc., that contain small amounts of moisture are successfully mixed in this blender, even though such materials, particularly when characterized by small particle size, may form agglomerates during the mixing cycle. The blender is produced in sizes having operating capacities of .35 to 550 cubic feet and is available in mild steel or alloys as required.

Potassium Acetate Data Offered

Niacet Chemical Division, United States Vanadium Corporation, a unit of Union Carbide & Carbon Corporation, Niagara Falls, N. Y., has published a new bulletin on potassium acetate. The publication presents in detail the physical and chemical properties, latest specifications and shipping and handling information on this chemical. Copies of bulletin No. 3 can be obtained from Niacet, 966 Niagara Building, Niagara Falls, N. Y.

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Drugs and Fine Chemicals

There was a wide range of price changes last week in drugs and organic chemicals, following the lengthy list of upward adjustments effected the previous week. Menthol moved in a stronger market following the uncertainties with respect to shipment from Red China through Hong Kong. Cocoa butter weakened as a result of the drop in cocoa beans. Podophyllin was advanced $2.25 per pound. Antipyrene was upped 15 cents per pound.

Fermentation source ester solvents were higher, some having moved up the previous week, and others moving last week. Synthetic amyl acetate was upped 1¼ cents per pound while the alcohol was quoted 1 cent higher. The important large volume ketones were advanced, but the rise was confined to a matter of 1 cent per pound. Tributylamine was reduced in price 7 cents per pound, but other alkyl amines were quoted at levels 3 to 6 cents above former schedules.

Pentaerythritol of all types and grades was advanced 2 cents per pound. Crotonaldehyde was increased 5½ cents per pound. Hexamethylenetetramine was quoted 1 cent per pound higher. Thymol increased 25 cents per pound above former schedules.

Glycerin prices were advanced in some quarters by 3 cents per pound, but other major producers held firmly to schedules which have been in effect over recent weeks, so that the market as a whole was regarded as unchanged.

Alcohol—The price spread between different producers widened a bit last week on some formulas, but the market as a whole was unchanged from the general range of prices which were quoted in the previous issue. It could be said with certainty, however, that the great bulk of industrial alcohol moved at prices based on pure 190 proof material at 90 cents per gallon. Some alcohol still moved at lower prices, however, and for the next quarter some synthetic alcohol would continue to be priced at levels in which denatured formulas were based on pure 190 proof material at 55c. per gallon. These were the prices on the low side of the alcohol price range as currently quoted in OPD. The RFC has named as agent to expedite and handle alcohol purchased from the government of France (see Page 5).

Brucine—Alkaloid has worked into a substantially firmer position and market comment was to the effect that prices are apt to work higher. The sulphate seemed to be more readily obtainable and in what were called "outside hands" a tendency to shade quotations could be found. Lack of large demand has curbed strychnine production rather sharply and that has reacted in some measure on the supply of brucine. Spot business in alkaloid has been often done at 35c. per ounce while the sulphate prevailed at 27c. to 30c. as to supplier. Officially, alkaloid was reported at 30c. per ounce but well informed quarters said that practically all buyers had been compelled to pay 35c. when prompt deliveries were required.

Camphor—Effective at once, prices on domestic synthetic USP camphor in tablet form become as follows:—2,000-pound lots, 88c. per pound; 1,000-pound lots, 89c.; smaller lots, 90c. per pound. It was a 5c. advance. No change was made in the price of USP granular of powdered material.

Castor Oil — Prices on medicinal oil were advanced 4c. per pound during the week. No prices were available on beans, because of lack of offerings, but it was felt that if there were any offerings the price would be considerab'y over the last nominal figure of $210 per long ton. One year ago beans were priced at $107 per long ton.

Imports of beans last week amounted to 3,386 bags equivalent to 507,900 pounds, compared with arrivals the previous week of 76,473 bags or 11,470,950 pounds, and 90,599 bags or 13,589,850 pounds during the corresponding week of last year.

Total imports of beans since January 1 of this year amounted to 1,579,799 bags equivalent to 236,969,850 pounds, compared with imports of 1,731,710 bags or 259,756,500 pounds during the corresponding period of 1949.

Cocoa Butter—Considerable price unsettlement prevailed in the bean market last week and on declines in the cost of raw material, quotations on butter were lowered to 68c. to 73c. per pound. However, toward the end of the period, bean prices showed a tendency to rally.

Collodion—Higher cost raw materials resulted in increased collodion prices, by 8c. per pound. Under the new price schedule less than carlot drum quantities were quoted at 34c. per pound on the regular and 35½c. on the flexible.

Corn Syrup—Reflecting the higher tone in the commodity market, this item was last week advanced 10c. per 100 pounds.

Creosote Drugs—Prices were advanced 10 cents per pound on NF creosotes last week. The NF liquid was quoted at $1.05 to $1.10 per pound, depending upon quantity, under the new price schedule for drums and carboys. Beechwood creosote became $1.35 to $1.45 per pound. Creosote carbonate also advanced 10 cents per pound, bringing the current price schedule to $2.80 to $2.90 per pound for carboys. Over 275 pound quantities, however, could be had at 5 cents under the 45 pound carboy price of $2.80.

Ether—Ethyl ether of the USP industrial grade was advanced 7 cents per pound reflecting the higher ethyl alcohol costs. This brought tankcar quotations to 19 cents per pound, with drums adjusted upward accordingly.

Ethyl Acetate—Fermentation material was priced higher, the low side of the range moving up 4 cents per pound. Different producers quoted different prices. Tankcars of the 85 percent grade ranged from 18 to 20 cents per pound, and this 2-cent per pound spread applied to all grades and quantities of fermentation produced material.

Glycerin—The market, despite recent substantial imports, was still critically tight. Last week imports totalled well over 676 tons. Producers reported receiving an increasing number of DO rated orders and the demand for military enduses, direct and indirect, was said to be on the increase. Prices were unchanged with most producers, but some advanced former schedules last week at 3 cents per pound.

Guaiacol—After a price advance of 10 cents per pound, the NF liquid effective last week became $2.15 to $2.20 per pound. The carbonate, in the present market, was priced at $3.15 to $3.20 per pound.

Hexamethylenetetramine—Prices were advanced 1 cent per pound across the board on bags and barrels last week. Accordingly, technical material in bags was quoted at 24 cents per pound for carlot quantities, f.o.b. Perth Amboy or New York, and less than carlot bag quantities at 26 cents on the same basis. Barrels were quoted ½ cent per pound over bags.

Hexyleneglyco.—Prices were advanced 1½c. per pound, which brought current tankcar quotations to 14c. per pound,

For Late Market Developments, See Page 9

Market Trends

Prices Advanced

Acetonitrile, 2c. per lb.
Alcohol, butyl, secondary, 1c. per lb.
Isopropyl, 5c. per gal.
Aldol, 5c. per lb.
Amyl acetate, fermentation, 7c. per lb.
Synthetic, 1¼c. per lb.
Amyl alcohol, synthetic, 1c. per lb.
Antipyrene, 15c. per lb.
Barbital, 50c. per lb.
Sodium, 50c. per lb.
Butyl acetate, secondary, 2½c. per lb.
Butyl lactate, 9c. per lb.
Calcium hypophosphite, 10c. per lb.
Camphor tablets, 5c. per lb.
Carbinol, methylisobutyl, 1c. per lb.
Corn syrup, 10c. per 100 lbs.
Castor oil, 4c. per lb.
Collodion, USP, 8c. per lb.
Creosote liquid, NF, 10c. per lb.
Beechwood, 10c. per lb.
Carbonate, 10c. per lb.
Crotonaldehyde, 5½c. per lb.
Dibutylamine, 3¼c. per lb.
Diethyl[illegible]ine, 5¼c. per lb.
Diethyl[illegible]arbonate, 10c. per lb.
Oxalate, 7c. per lb.
Diethylethanolamine, 6c. per lb.
Dipentaerythritol, 2c. per lb.
Ether, ethyl, USP, industrial, 7c. per lb.
Isopropyl, ½c. per lb.
Ethyl acetate, 4c. per lb.
Ethylacetoacetate, 7½c. per lb.
Formaldehyde, ¼c. per lb.
Guaiacol liquid, 10c. per lb.
Hexamethylenetetramine, 1c. per lb.
Hexyleneglycol, 1½c. per lb.
Isopropyl acetate, 1c. per lb.
Methylethyl ketone, 1c. per lb.
Methylisobutyl ketone, 1c. per lb.
Milk powder, skimmed, roller, ½c. per lb.
Monoisopropylamine, 3½c. per lb.
Monoethylamine, 10½c. per lb.
Paraformaldehyde, USP X, 1c. per lb.
Pentaerythritol, 2c. per lb.
Phenobarbital, 50c. per lb.
Sodium, 50c. per lb.
Podophyllin, $2.25 per lb.
Potassium hypophosphite, 10c. per lb.
Rutin, ¼c. per gm.
Sodium hypophosphite, 10c. per lb.
Sucrose Octa-acetate, 5c. per lb.
Thymol, 25c. per lb.
Tripentaerythritol, 2c. per lb.

Prices Reduced

Cocoa butter, 4c. per lb.
Tributylamine, 7c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 16, 1949
261.8	261.8	259.6	254.4	254.4

(*For Current Prices see Page 9*)

drum carlots, to 15¾c., and less than carlot drum quantities to 16½c.

Hypophosphite — Calcium, magnesium and sodium hypophosphites were up 10c. per pound last week. This brought calcium prices to a range of 90c. to 93c. per pound, depending upon quantity. Various quantities of potassium were quoted in the range of $1 to $1.03 per pound, and sodium ranged from 95c. to 98c. per pound. Higher raw material and manufacturing costs were responsible for the increased price. Supplies were currently in a very tight supply position.

Isopropyl Alcohol — Prices were advanced 5c. per gallon all across the board on the three percentage grades of this item. Tankcar quotations stood at 42c. per gallon on the 91 percent material, 43½c. on the 95 percent grade and 47c. on the 99 percent grade.

Menthol—Menthol from Red Communist China has been reaching this country through the British Crown Colony of Hong Kong, and the recent action by the secretary of the Department of Commerce, whereby export licenses are required by United States exporters wanting to ship to China, Hong Kong and Macao may react on the export of Chinese menthol to this country. Macao is a Portuguese island in the mouth of the Canton river in China. When this United States action took place, the Hong Kong value of the American dollar dropped from 6.45 Hong Kong dollars to 6.17 Hong Kong dollars, the lowest in nine months. Furthermore, business men in Hong Kong predicted a drop in the official rate to 5.79 Hong Kong dollars. Also, the dispatches carrying that news added that "there is no demand for American dollars when there is little possibility of buying anything with them. American and Chinese banks with United States branches refused open letters of credit to would-be exporters until the situation is clarified."

At least one possible effect of the depreciation of the United States dollar when used to buy Hong Kong dollars could be to raise the net cost of Red menthol shipped through Hong Kong. Another would be to make Hong Kong a "Ghost City" so far as commerce with this country is concerned. Still a third might be a decrease in the number of ships in the United States-Hong Kong trade, a fact that would be reflected in a lessening of the number of cargo carriers in which Red menthol might be loaded for United States ports. Incidentally, bricks are being included in some packages of arriving menthol and some material has been damaged in transit by having been stored against boilers aboard ship.

All of which, some argued last week, could well make natural menthol a more valuable property in this market. Spot goods were quoted $11.80 to $11.90 per pound and January deliveries close to $11.40, duty paid.

Because of a rising cost of production and the pressure of demand from consuming interests, quotations on synthetic racemic menthol have risen to $8 to $8.50 per pound, prevailing according to quantity.

Methylisobutyl Ketone—Price schedules 1 cent above former levels were effected, bringing tankcar quotations to 13 cents per pound. Drum carlots were quoted at 14¾ cents per pound, and less than carlot drum quantities at 15½ cents.

Paraformaldehyde—The 95 percent grade meeting USP X specifications, was advanced 1 cent per pound, reflecting the higher cost of formalin. Under the new price schedule effected last week, prices were quoted on an f.o.b. works basis, delivery made within a radius of 225 miles around the New York area, and a ½ cent freight allowance made beyond that radius.

On this basis, truckloads or carloads packaged in 250-pound fiber drums were priced at 19 cents per pound. Less than carloads, but consisting of quantities of 10,000 pounds and over, were quoted at 19¾ cents. Lots of 1,000 to 9,999 pounds were quoted at 20½ cents, and quantities under 1,000 pounds at 23 cents per pound. Material packaged in 100-pound fiber drums carried a ½ cent premium. A 50-pound fiber drum was priced at 31 cents per pound, and a 25-pound fiber drum at 36 cents.

Pentaerythritol—Prices were advanced 2 cents per pound on all grades last week, reflecting the higher cost of formaldehyde, which in turn was advanced by virtue of the upward adjustment made in methanol prices. Di and tri pentaerythritol were likewise advanced 2 cents per pound. Under the new price schedule carlot bag quantities of pentaerythritol were quoted at 34 cents per pound and smaller lots ranged from 35 to 37 cents per pound. Dipentaerythritol in less than carlot bag quantities was quoted at 37 cents per pound, and tripentaerythritol

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was similarly quoted 2 cents over former schedules.

Podophyllin—Manufacturers advanced prices $2.25 per pound in order to establish a price that would reflect accurately the increase in raw materials and manufacturing costs. The schedule became as follows:—100-pound lots, $14.70 per pound; 50-pound lots, $14.80; 25-pound lots, $14.90; 5-pound lots, $15.30; and 1-pound lots, $15.45. A substantial part of the higher production costs is the much higher prices at which alcohol has to be bought today as compared with alcohol prices prevailing in August, 1949, at which time the former podophyllin schedule had been set. At that time, pure ethyl alcohol, tax free, was 29c. per gallon in tankcars. Today, that alcohol ranges 65c. to 90c. per gallon. The alcohol loss in the manufacturing process is estimated at one gallon for each pound of podophyllin produced. The United States today supplies the major part of British requirements, according to local allegation. This is because Britain finds it difficult to impossible to obtain *emodi*, a species of podophyllum, from India; it was last quoted at 450s per hundredweight.

Procaine Hydrochloride—One producer announced higher price schedules on this item late last week. Under their new schedule 1,000-pound quantities were listed at $4.00 per pound, 500-pound lots at $4.25, and 100-pound drums at $4.50.

Rutin—The period of excessively depressed prices is passing slowly and at last midweek the quantity price ranged 2c. to 2½c. per gram, or $20 to $22.50 per kilo. Furthermore, it was suggested that the market was apt to continue its advance at least until it reached $25, and possibly $30 per kilo.

Thymol—Because of a rising cost of production that has rendered the recent price of thymol unproductive of profit to the manufacturers, the latter advanced quotations by 25c. per pound last week and established the market at $3.75 to $3.80 per pound, depending on quantity. Thymol iodide was quoted $8.02 to $8.12.

Vitamin A Assay Report Available

A limited number of copies of an unpublished paper entitled "Current Experience in the Estimation of Vitamin A by the USP XIV Procedure" are available for distribution upon receipt of a letterhead request addressed to Food Research Laboratories, Inc., 48-14 Thirty-third street, Long Island City 1, N. Y. Dr. Bernard L. Oser, director, says this release is a summary of a paper read before the Animal Nutrition Research Council at its meeting in Washington, October 4, 1950, under the joint authorship of Kenneth Morgareidge, Milton Blitz, John R. Foy, and James P. Aaron, jr., of Food Research Laboratories and Nopco Chemical Company.

Snell Company Forms Concern in Mexico City

Foster D. Snell de Mexico, S. de R.L. of Apartado 20.609, Mexico City, has been formed, according to Foster Dee Snell of the corresponding New York firm of consulting chemists. It is expected that the new firm will confine its activities to consulting, development, and engineering problems in Central America, particularly in Mexico. J. Carner and J. Sperling in charge of the new subsidiary in Mexico City will be available for consultation but it is anticipated that for the present laboratory and engineering facilities at New York and Bainbridge, N. Y., will suffice.

Trade Briefs

George A. Breon Company, New York, has called a district sales managers' meeting January 2 to 4 in that city, with the January 5 scheduled for a visit to the Sterling-Winthrop Research Institute in Rensselaer, N. Y.

Armour Research Foundation of the Illinois Institute of Technology, Chicago, is offering a number of industrial research fellowships in physics, chemistry, metallurgy, ceramics, mechanics, and electrical engineering to begin September, 1951.

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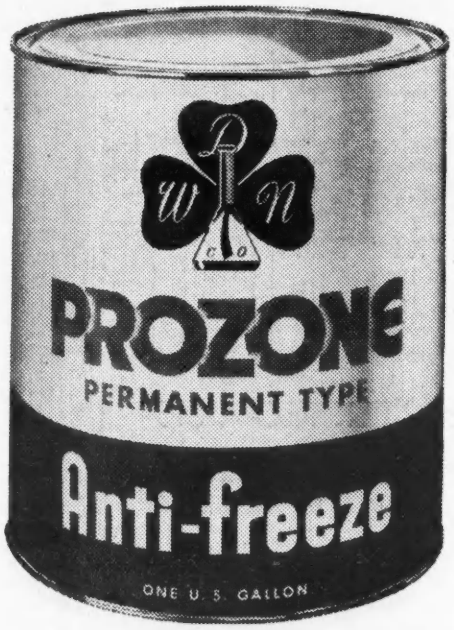

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White Labs Fined for Low Potency Vitamin B Complex

Low-potency vitamins at "bargain" prices brought a $2,000 fine to White Laboratories, Inc., Newark, N. J., the Food and Drug Administration reported December 14 in submitting to Federal Security Administrator Oscar R. Ewing its list of November convictions. The vitamin B-complex tablets were 40 to 67 percent below the potency of the various components listed. The firm pleaded guilty, attributing the shortage to a "clerical error." The labels, its representatives claimed, should have stated that six tablets—a suggested daily consumption—would furnish the amounts of vitamins declared, not just one as implied on the label.

The Food and Drug Administration became interested in the tablets when one of its veterinarians received a form letter from a veterinary supply house listing bargain prices for vitamin B-complex tablets discontinued as lines for human use. The letter suggested feeding the viamins to little pigs. Testing in the Food and Drug Administration nutrition laboratories revealed the shortages and seizures were made of shipments to the veterinary dealer and to a physician who operated a clinic in the Middle West.

Investigation at the White Laboratories factory, where the tablets were compounded, revealed that the low-strength lots were from goods returned by dealers after they had been stored varying lengths of time. Many vitamins deteriorate under such conditions. The firm accumulated the tablets in drums and resold them at bargain prices without adequate tests and proper labeling to show their true potency.

Van Winkle Named to Head Research at Ethicon Suture

Ethicon Suture Laboratories, Inc., a subsidiary of Johnson & Johnson, New Brunswick, N. J., has appointed Dr. Walton Van Winkle, jr., director of research, effective January 1. In his new post Dr. Van Winkle will take over the administrative duties of Dr. H. L. Davis, who will devote his full time to special scientific work and assignments for Ethicon.

Dr. Van Winkle was an instructor of pharmacology at Stanford University School of Medicine before joining the Food and Drug Administration in 1941. He left FDA in 1946 to join the American Medical Association. For the past four years he has been secretary of the AMA's therapeutic trials committee, Council on Pharmacy and Chemistry, and assistant secretary of the council. During his tenure with the AMA, Dr. Van Winkle has been professorial lecturer in pharmacology at the University of Illinois School of Medicine.

Univ. of Illinois Dedication Ceremonies Set March 30-31

Dedication of the new East chemistry building at the University of Illinois will be March 30 and 31, 1951, according to plans approved by the board of trustees. Events will include a symposia on chemical engineering and another on biochemistry, with four speakers for each, as well as inspection of the building, social functions, a dinner, luncheon, and tea, and the formal dedication ceremony.

Trade Briefs

Sterling Drug, Inc., will transfer its manufacturing operations of "Ironized Yeast" January 1 from the Atlanta, Ga., plant of the Centaur-Caldwell division to the concern's Rahway, N. J., plant.

Charles Pfizer & Co., Brooklyn, N. Y., is currently offering terramycin in a topical ointment, "Crystalline Terramycin Hydrochloride Ointment," for treatment of local infections.

National Wholesale Druggists Association has published preprint No. 4 of the association's 1950 year book, copies of which are available upon request to NWDA, 330 West 42d street, New York 18.

Bristol-Myers Company, New York, is offering a complete kit containing ninety-three display pieces to druggists throughout the United States to promote a "Mid-Winter Drug Sale."

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ECA Announces Additional Procurement Authorizations

Among the new procurement authorizations issued to Marshall Plan countries by the Economic Cooperation Administration during the period December 8 to 14 were the following:

To Austria — $300,000 for nonmetallic minerals, $130,000 for chemicals, $100,000 for tinplate from the United States; $300,000 for hides and skins from Latin America and Canada.

To Belgium-Luxembourg—$500,000 for petroleum from the Middle East.

To China—$175,000 for peanut oil from the United States.

To France — $5,315,000 for chemicals, $2,140,000 for medicinal preparations, $529,000 for nonmetallic minerals, $100,000 lecithin, $900,000 for crude drugs, and $20,000 for whale oil and fish oils from the United States; $120,000 for chemicals from Canada.

To French North Africa—$410,000 for copper from Latin America.

To Germany—$4,550,000 for grain sorghums and $500,000 for zinc products from the United States; $600,000 for nonferrous ores and concentrates from Latin America.

To Greece—$100,000 for copper products and $700,000 for agricultural pesticides from the United States; $1,000,000 for hides and skins from Latin America.

To Netherlands—$60,000 for chemicals and $1,000,000 for copper products from the United States; $285,000 for copper from Canada; $1,070,000 for nonferrous ores and concentrates from Latin America.

To Portugal — $1,367,000 for tinplate from the United States.

To Sweden — $700,000 for chemicals from the United States.

To United Kingdom — $3,500,000 for petroleum from Latin America.

Monomer-Polymer Issues Pamphlet

Monomer - Polymer, Inc., Chicago, Ill., has published a new product listing. Containing over 200 research and production monomers, the majority of which have never before appeared on the open market, pamphlet lists monomers of many types, including vinyl, allyl and diallyl esters of straight chain acids; C_1 to C_{18} alkyl acrylates and methacrylates; substituted styrenes; ethylenimines; vinyl halides, and vinyl heterocyclics.

Roberson Forms Own Company

Victor L. Roberson has formed his own company at 119 East Soper street, St. Louis 11, Mo. Known as the Victor Roberson Company, the firm is a manufacturers' agent and deals in basic raw materials for the drug, cosmetic, chemical and allied trades. Prior to the formation of his own concern, Mr. Roberson was for many years a partner in the Clifford L. Iorns Company of St. Louis.

Mines Bureau Offers Report On Ariz. Copper Investigation

Wartime investigation of the Twin Buttes copper mines in Pima County, Ariz., is described in a report released by the Bureau of Mines. The bureau studied the area by mapping, test pitting, trenching, and sampling from August, 1942, to January, 1945, and later made a geophysical survey of the mapped area.

A free copy of report of investigations 4732, "Investigation of Twin Buttes Copper Mines, Pima County, Ariz., can be obtained from the Bureau of Mines, publications distribution section, 4800 Forbes street, Pittsburgh 13, Pa.

Glutamic Acid Booklet Issued

The Amino Products Division of International Minerals & Chemical Corporation, Chicago, Ill., has published a booklet entitled, "The Present Nutritional Status of Glutamic Acid." The publication covers the history of the chemical, its occurrence, physical properties and toxicity. It also treats the relationship of glutamic acid to metabolism, the central nervous system, adrenalin and hemoglobin formation, and discusses its use in salt-free diets.

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Owens-Illinois Hires Thomas

Owens-Illinois Glass Company, Toledo, Ohio, has appointed Claude W. Thomas, jr., eastern regional merchandising manager of the glass container division, with headquarters in New York. Mr. Thomas comes to Owens-Illinois from Modern Food Sales Company, where for the past four years he served as sales manager.

Sharpe & Dohme Names Stockton

John R. Stockton has been appointed assistant to the director of biological production, Sharp & Dohme, Inc., Philadelphia. Mr. Stockton served as assistant professor of pharmacy at the University of Texas from 1939 to 1946, and in the four years prior to his association with Sharp & Dohme he was director of research at the Hyland Laboratories, Los Angeles, Calif.

Fly Controls Problems

—*Continued from page 5*

added, the larval-development period increased as the degree of DDT resistance in the strain increased.

P. Granett and H. L. Haynes, of Rutgers University, talked on "Further Evaluation of Butoxypolypropyleneglycol as a Fly Repellent for Dairy Cattle." They reported that field tests indicated that sprays containing butoxypolypropyleneglycol 800 at 10 percent concentration with pyrethrins, allethrin, or Thianite, were effective as repellents on cattle against horn flies, stable flies, and house flies. The period of good protection was for one day, they noted, with measurable protection sometimes lasting into several days. These combinations gave equal or superior performance to sprays containing synergized pyrethrins, they concluded.

Stable Fly Report

Elton J. Hansens, of Rutgers University, reported on "The Stable Fly and Its Effects on Seashore Recr ational Areas in New Jersey," noting that the stable fly in that area breeds predominantly in marine grasses washed up on the shores, particularly of the bay areas. Egg deposition, Mr. Hansens stated, is started in these accumulations of vegetation three to four days after they are washed up and in three to four weeks the peak of emergence of adults from these larvae is encountered.

It was reported that spraying of the accumulations of vegetation with 0.5 percent emulsions of DDT, methoxychlor, or TDE (DDD) at the rate of two parts per 100 square feet of surface gave good control. A community project of spraying with 0.5 percent DDT emulsion was effective in reducing the fly annoyance on neighboring beach areas by 85 to 90 percent in the past two seasons, he said. Equipment found to be best suited for the treatment was a conventional 200-gallon spray using three-nozzle spray brooms.

D. L. Collins and R. V. Nardy, of New York State Science Service, discussed the "Effects of DDT Spray Residues on Larvae of the Tick." They stated that field applications of DDT emulsion on grass for control of adult ticks also appear to have residual action against tick larvae, adding that studies were made of applications at rates from one pound to 20 pounds for twenty-four hours in the laboratory on clippings from the treated grass. These tests indicated that grass from areas treated with five pounds of DDT per acre was toxic to the tick larvae after five weeks of weathering. The deposit from treatment of one pound per acre, they concluded, was toxic only on the first test made, four hours after application.

Dibutyl Adipate Evaluated

P. Granett and C. F. French, of Rutgers University reported on "Further Tests of Dibutyl Adipate as a Tick Repellent." They stated that field tests made with dibutyl adipate against the American dog tick, *Dermacentor variabilis* Say, revealed that coveralls impregnated with the chemical gave 98 percent protection after a seven-week period despite two washings. Investigation of the application of 5 and 15 percent dibutyl adipate to coveralls from low-pressure aerosols, they said, showed a repellence to ticks after three weeks with no washing.

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National Science Foundation Elects Conant Head of Board

Dr. James B. Conant, president of Harvard University, was elected chairman of the national science board of the National Science Foundation at the first meeting of the group December 13, which was called into session by President Truman. Another meeting will be held January 3 at which time the board is expected to recommend a foundation director to the President.

In addition to filling the top job in the new agency, the directors also elected Edwin B. Fred, president of the University of Wisconsin, as vice-chairman and the following members to the executive committee:—

Chester I. Barnard, president of the Rockefeller Foundation; Detlev Wulf Bronk, president of Johns Hopkins University; Lee A. Dubridge, president of the California Institute of Technology; Dr. Paul M. Gross, dean of the Duke University graduate school; Robert F. Loeb, Bard professor of medical services College of Physicians and Surgeons, Columbia University; Joseph C. Morris, vice president of Tulane University, and Elvin C. Stakman, chief of the division of plant pathology and botany, University of Minnesota. Dr. Conant and Dr. Fred will serve as ex-officio members of the executive committee.

NSRB Appoints Thomas Scientific Manpower Chief

Dr. Charles A. Thomas, executive vice-president of Monsanto Chemical Co., has been named chairman of the scientific manpower advisory committee of the National Securities Resources Board. Dr. Philip N. Powers, of the Atomic Energy Commission, has been named specialist on scientific problems in the manpower office of NSRB.

Dr. Thomas is a former president of the American Chemical Society, a former director of the Oak Ridge Laboratories of the Atomic Energy Commission, and a member of the scientific panel of United States representatives to the United Nations Atomic Energy Commission.

Solutions to scientific manpower problems will be proposed to NSRB by federal agencies, industry and scientific societies and the advisory committee headed by Dr. Thomas will assist the chairman in evaluating these proposals. The committee will weigh the manpower requirements of a sound basic research program with the requirements for applied research and development for production. In addition, means must be found to avoid haphazard shifts in employment without unnecessary encroachment upon the rights of individuals.

AAAS Sets Conclave

—*Continued from page 4*

Ultraviolet, Infrared, and Polarographic Studies on Three Principles," S. D. Bailey, P. A. Geary and A. E. DeWald; "Khellin—Part II. Methods for the Determination of Three Principles Isolated from Ammi Visnaga Lam," W. C. Ellenbogen, E. S. Rump and P. A. Geary; "Analytical Problems in Pharmaceutical Products," M. G. Girbino; "Antifungal Properties of Some Antihistamines," G. C. Walker, H. George DeKay and C. L. Porter; "A Simple Method for Recording the Heart Beat of Warm Blooded Animals," J. W. Nelson and J. R. Murray, and "Castor Oil, Alcohol and Water Miscibility," M. R. Loran and E. P. Guth.

Sessions on December 29 will consist of a hospital pharmacy seminar. The morning session will start with the showing of two U. S. Army motion pictures entitled, "The Medical Effects of the Atomic Bomb" and "Medical Services in Atomic Disaster." This will be followed by a panel discussion on "The Responsibilities of the Pharmacist in Civilian Defense." Participating in the panel will be:—Mrs. Evlyn Gray Scott, chairman; Walter F. Wargell; George F. Archambault; Bernard E. Conley; J. J. Pinajian, and Don E. Francke.

Papers scheduled for the afternoon session on December 29 are the following:—"The Importance of Amber Glass for Prescription Containers," G. F. Archambault; "Recent Developments in Pesticides," B. E. Conley; "Some Factors in Establishing a Laboratory for Radioactive Materials in the Hospital Pharmacy," J. J. Pinajian; "Pharmaceutical Aspects of Sun Screen Compounds," V. L. Conley, and "The Pharmacy as a Health Education Medium," A. P. Straus.

Good Health to Children...

For the sake of your children, and your children's children, make sure you buy and use Christmas Seals.

Christmas Seal funds have fought tuberculosis since 1907. And today your children have a far greater chance of escaping TB than you did.

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Because of the importance of the above message this space has been contributed by

OIL, PAINT AND DRUG REPORTER

DuPont Research Posts To Sparks and Salisbury

The rayon technical division of E. I. du Pont de Nemours & Co., Wilmington, Del., has appointed two new assistant directors of research. Dr. Chiles E. Sparks, an assistant manager of the development section, has been named assistant director of nylon research, and Dr. L. Frank Salisbury, previously assistant director of nylon, has become assistant director of acetate research.

Dr. Sparks joined the duPont organization in 1936 as a research chemist at the Jackson laboratory of the organic chemicals department. Working on dyes, he became successively a group leader and division head. In 1946, he was made a research supervisor in the rayon pioneering research section at Buffalo, N. Y., and three years later he was appointed dyeing coordinator of the rayon technical division in Wilmington. He has been assistant manager of the development section since May of this year.

Dr. Salisbury joined the company in 1939 as a research chemist at the experimental station in Wilmington. He became a supervisor in the nylon research section in 1945 and two years later was made research manager at the Carothers research laboratory. He has been assistant director of nylon research since June 1 of this year.

Graphite Greases, Lubricants Now on OIT Positive List

Graphite greases and lubricants were placed on the positive list December 7 by the Office of International Trade in a move to conserve domestic supplies of these commodities. The action, taken under schedule B No. 548098, includes but is not limited to alemite, aquadag and oildag. The small shipment exemption for graphite greases is $25.

Another change in export regulations announced by the agency had to do with the processing code for agricultural chemicals. Hereafter, it was stated, the processing code for agricultural fungicides containing zinc dimethyl dithiocarbamate, or tetramethylthiuram disulphide, shall be AGCH.

OIT also announced that similar action has been taken with respect to hog bristles of more than two and three-quarters inches in length. Shipments to country group R or O destinations now require a validated license. The small shipment exemption for hog bristles is $100.

Essential Oil Ass'n Sets Annual Meeting January 5

The Essential Oil Association will hold its annual meeting January 5 at the Savoy-Plaza hotel, New York. The business meeting will begin at 6 p.m., with dinner scheduled at 8 p.m. The association is headed by Hans P. Wesemann, vice-president of Fritzsche Brothers, Inc., New York.

Packaging Institute Forum Scheduled October 22-24

The Packaging Institute will hold its thirteenth annual forum October 22 to 24 at the Commodore hotel, New York, according to an announcement by Charles O. Kendall, of E. R. Squibb & Sons, president of the organization.

Price Gets PHS Post

Dr. David E. Price has been appointed an assistant Surgeon General of the Public Health Service and an associate director of the National Institute of Health, Federal Security Administrator Oscar R. Ewing announced December 12. The appointment was made by Dr. Leonard A. Scheele, Surgeon General of the Public Health Service.

U.S. Benzene Needs

—Continued from page 3

France on a government level. Current imports of benzene now amount to about 30,000,000 gallons, practically all from England.

Other Possible Sources

Other possible sources for additional supplies discussed were shutting off benzene for blending with motor fuels and converting this into chemical grades, the substitution of petroleum products for benzene, and the eventual increase that will result from coke operations incidental to steel expansion program.

Joseph S. Bates, director of the chemical division of NPA, presided at the meeting. In addition to those named to the task force other industry representatives present at the meeting were:—

A. B. Hersberger, of the Atlantic Refining Company; E. A. Coons, of duPont; O. V. Tracy, of Esso Standard Oil Company; H. W. Yeagley, of Monsanto; Alan S. Evans, of Pittsburgh Coke & Chemical Company; Carl Hilkert, of Republic Steel Corporation; W. P. Gage, of Shell Chemical Company, and C. F. Senchter, of Pan American Refining Company.

Chemicals and Gases Survey

—Continued from page 3

will be contacted in the annual survey, officials explained there will be no duplication because those establishments that file the monthly, quarterly, or semi-annual reports will not have to submit annual reports.

Those firms which will have to supply the annual data will be asked to furnish data on shipments and (or) production. In addition, data on manufacturers' stocks will be required for superphosphates, softwood plywood, and steel shipping barrels, drums and pails. For the softwood plywood and commercial closure surveys, data on consumption of raw materials will be included.

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Show your product at its best and give it top protection at the same time. Pack it in one of Continental's "F" Style cans. These handsomely fully lithographed cans, which add sales appeal to any product, come in the following standard sizes: ½-pint, pint, quart, ½-gallon and gallon. All are equipped with pouring nozzles, and larger sizes are furnished with handles. For further information on these good-looking practical containers, check with Continental.
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P.S. Continental also makes steel containers in a wide variety of sizes for bulk shipments.

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Eastern Division: 122 East 42nd St., New York 17 • Central Division: 135 So. La Salle St., Chicago 3 • Pacific Division: Russ Bldg., San Francisco 4

Imports at United States Ports

New York

AGAR—10 bls, Kellys America Ltd, Kobe
5 cs, Takamine Ferment Co, Yokohama
ALIZARIN COLOR—2 dms, Hensel Bruckmann, Rotterdam
ALOES—58 cs, John Holt, Mossel Bay
ALPHACHLOROANTHRACENE—1 dm, National City Bank, Rotterdam
ALUMINIUM SULPHATE—50 bgs, Charles Tennant, Liverpool
AMINOFORMANILID DRY—22 dms, D W Hickey, Rotterdam
AMMONIUM BICARBONATE—446 dms, Chemical Manufacturing Co, Liverpool
BIFLUORIDE—1 cs, F W Berk, Liverpool
CHLORIDE—133 bgs, Alreco Metal Corp, Manchester
SULPHATE—50 bbls, E M Sergeant Pulp & Chemical Co, Rotterdam
17 dms, Aceto Chemical Co, Hamburg
ANILIN COLORS—14 dms, Heemsoth Kerner, Liverpool
3 dms, Heemsoth Kerner, Liverpool
19 dms, L e i Organic Products Co, Liverpool
22 dms, Hensel, Bruckmann, Rotterdam
1 can, D W Hickey, Rotterdam
93 dms, Sandoz Chemical Works, Havre
57 dms, Geigy Co, Havre
14 dms, Carbic Color & Chemical Co, Havre
2 cs, Manufacturers Trust Co, Rotterdam
114 dms, Ciba Co, Rotterdam
33 dms, Geigy Co, Rotterdam
1 cs, Geigy Co, Rotterdam
122 dms, Heemsoth Kerner, Liverpool
2 dms, Ciba Co, Liverpool
SALTS—20 cks, Ciba Co, Liverpool
ANISE OIL—20 dms, Hyeton Corp, Hong Kong
SEED—442 bgs, Izmir
ANTIMONY OXIDE—200 dms, Chas Gitlan & Co, Antwerp
REGULUS—50 cks, Watson Geach, Liverpool
10 cks, Derby & Co, Liverpool
1,265 cs, Philipp Bros, Rijeka
ARABIC GUM—150 bgs, Irving Trust Co, Port Sudan
200 bgs, Port Sudan
ARGOLS—303 bgs, Naples
415 bgs, Tartaric Raw Materials Corp, Marseille
ARROWROOT—535 bgs, Morningstar Nichol, St Vincent
ARSENIC METAL—20 dms, Charles Tennant Sons, Liverpool
ASBESTOS FIBER—1,500 bgs, Johns Manville Corp, Lourenco Marques
207 bgs, Commercial National Bank, Lourenco Marques
22 bgs, R P Goedert, Genoa
ASPHALT—1 bgs, A Gibbs, Buenos Aires
AZOISOBUTYRICDINITRILE—2 cs, Southampton
BABASSU OIL—240 tons, Colgate Palmolive Peet, Sao Luiz Do Maranhao
BALSAM—5 cans, George Lueders, La Libertad
BASIL LEAVES—13 bls, Peek & Velsor, Marseille
BAUXITE ORE—2,701 tons, Alcoa Mining Co, Paramaribo
3,534 tons, American Cyanamid Co, Everton
BAY OIL—1 dm, Polak & Schwarz, Roseau
2 dms, Barclays Bank, Roseau
BEESWAX—70 bgs, E Vadillo Ruiz, Havana
9 bgs, General Import Distributors, Havana
141 bgs, Colonial Trust Co, Djibouti
192 bgs, J P Eberhart, Rotterdam
95 pkgs, J P Eberhart, Rotterdam
152 bgs, Will & Baumer Candle Co, Porto Alegre
52 bgs, Brazilian Minerals & Timbers, Porto Alegre
200 bgs, Guaranty Trust Co, Porto Alegre
67 pkgs, Port Sudan
14 bgs, Pallow Wilson, Melbourne
182 bgs, Mercantile Metal & Ore Co, Porto Alegre
22 pkgs, Barclays Midland Trust Co, Mozambique
BENZIDINE BASE—17 dms, Southampton
BILE, OX—1 dm, Bernhard Preyer, Rotterdam
POWDER—13 cs, Van Gelder Emio Corp, Buenos Aires
BISMUTH—143 cs, Philipp Bros, Rijeka
BLUE IRON—11 dms, Van Oppen & Co, Manchester
ULTRAMARINE—101 bbls, Faulkhouser Co, Rotterdam
14 bbls, Smith Chemical & Color Co, Antwerp
25 bbls, Manufacturers Trust Co, Antwerp
BONE—[illegible] International Packers Commercial, Buenos Aires
332 bgs, E J Lang, Buenos Aires
[illegible] bgs, Armour & Co, Montevideo
CRUSHED—613 bgs, E J Lang & Co, Buenos Aires
BUTANOL—100 dms, Bluefries Inc, Rotterdam
BUTTONLAC—100 bgs, MacLac Co, Calcutta
100 bgs, Gillespie Rogers Pyatt, Calcutta
CAFFEINE ANHYDROUS—46 bbls, Santos
CAMPHOR—225 cs, Rosenthal Bercow, Hong Kong
OIL—30 dms, Orbis Products Corp, Yokohama
CARAWAYSEED—1 dm, Internatio Rotterdam, Rotterdam
100 bgs, Catz American Co, Rotterdam
CARNAUBA WAX—315 bgs, Wax & Rosin Products, Bahia
103 bgs, Cornelius Products, Bahia
73 bgs, David Levin, Bahia
CASEIN—700 bgs, Milton Snedeker Co, Montevideo
11 bgs, H D Sheldon Co, Oslo
CASSIA—2,650 bls, A G Dunn, Hong Kong
500 bls, Po Hing Yuen Co, Hong Kong
200 bls, Weh Chang Corp, Hong Kong
250 bls, [illegible] H Landes, Hong Kong
200 bls, W M Allison, Hong Kong
150 bls, Wah Young Co, Hong Kong
978 bls, LoCurto & Funk, Rotterdam
100 bls, Knickerbocker Mills Co, Hong Kong
50 bls, W E Martin & Co, Hong Kong
100 bls, Hong Kong
300 bls, Otto Gerdau, Hong Kong
200 bls, R J Smith, Hong Kong
350 bls, C T Wilson, Hong Kong
150 bls, S L Jones, Hong oKng
OIL—10 dms, Fritzsche Bros, Hong Kong
3 dms, George Lueders, Hong Kong
3 dms, American Industrial Products Co, Hong Kong
CASTOR BEANS—1,693 bgs, Baker Castor Oil Co, Bahia
1,693 bgs, Baker Castor Oil Co, Salvador
OIL—170 tons, Baker Castor Oil Co, Santos
94 tons, Baker Castor Oil Co, Bahia
160 tons, Woodward & Dickerson, Rio de Janeiro
175 tons, Hardesty Chemical Co, Rio de Janeiro
50 dms, Guaranty Trust Co, Bombay
200 tons, Santos
CETYL ALCOHOL—17 cs, Liverpool
CHEMICALS—60 cs, F H Taussig Co, Rotterdam
500 bgs, Industrial Sales Corp, Antwerp
13 bbls, Manufacturers Trust Co, Rotterdam
15 cks, Pfaltz & Bauer, Rotterdam
AROMATIC—3 cs, Lo Curto & Funk Co, Rotterdam
CHESTNUT EXTRACT—500 bgs, Barkey Importing Co, Genoa
CHILLIES—100 bgs, Joensson & Cross, Kobe
100 bgs, Becker Mayer Seed Co, Kobe
CHOLESTEROL—16 cs, Industrial Raw Materials Corp, Rotterdam
7 cks, Industrial Raw Materials Corp, Rotterdam
6 cs, United Sterling Corp, Rotterdam
CINCHONA PRODUCTS—30 dms, Guaranty Trust Co, Rotterdam
14 cs, Guaranty Trust Co, Rotterdam
CIVET—3 cs, Djibouti
CLOVES—300 bls, National City Bank, Zanzibar
200 bls, Dodge & Olcott Inc, Zanzibar
200 bls, Louis Furth, Zanzibar
200 bls, Maywood Chemical Works, Zanzibar
100 bls, John Holt, Zanzibar
COALTAR DYESTUFFS—155 dms, Kaufmann & Vinson, Bremen
37 bbls, Irving Trust Co, Rotterdam
243 dms, C A Haynes, Rotterdam
PRODUCTS—4 dms, C A Haynes, Antwerp
COCOA EXPELLER CAKE—714 bgs, General Cocoa Co, Salvador
PRESS CAKE—655 bls, Ernest Adler, Salvador
187 bgs, Corn Exchange Bank, Havana
COCONUT OIL—555 tons, Zimmerman Alderson Carr, Cebu
15 dms, Procter & Gamble, Manila
242 tons, Philam & Co, Manila
514 tons, Manila
966 tons, Philippine Ref Co, Manila
300 tons, Bank of California, Zamboanga
COD OIL — 150 dms, Scandinavian Oil Co, St Johns
100 dms, Nopco Chemical Co, St Johns
100 dms, Whitmoyer Labs Inc, St John
CODLIVER OIL—25 dms, Eelsingh & Lugtiheid, Bergen
60 dms, Chas L Huisking, Bergen
100 bbls, Chas L Huisking, Bergen
COLOMBO ROOT—110 bgs, W E Martin, Mombasa
COPAL GUM—72 bgs, Internatio Rotterdam, Manila
32 bgs, S Winterbourne, Singapore
81 bgs, O G Innes Corp, Manila
407 bgs, O G Innes Co, Macassar
127 bgs, O G Innes Co, Macassar
150 bgs, U S Industrial Chemical, Macassar
110 bgs, U S Industrial Chemicals, Manila
160 bgs, W H Scheel, Manila
COPPER SULPHATE—500 bgs, Harry Dixon & Sons, Liverpool
COPRA—1,500 tons, El Dorado Oil Works, Legaspi
CORIANDER SEED—572 bgs, Rotterdam
200 bgs, Buenos Aires
COTTON LINTERS—146 bls, Textile & Paper Supply Corp, Antwerp
224 bls, O'Brien Products, Rotterdam
CREAM OF TARTAR—200 bbls, T M Duche & Sons, Barcelona
CRESYLIC ACID—100 dms, Liverpool
1 dm, Liverpool
307 dms, Liverpool
100 dms, Riches Nelson, Manchester
287 dms, Tar Residuals, Manchester
19 dms, Chematar inc, Manchester
100 dms, American Cyanamid Co, Manchester
555 dms, Monsanto Chemical Co, Liverpool
DAMMAR GUM — 50 cs, Gillespie-Rogers-Pyatt, Singapore
256 bgs, Thurston & Braidich, Singapore
100 cs, S Winterbourne, Singapore
80 bgs, Internatio Rotterdam, Tandjong Priok
25 cs, France Campbell & Darling, Singapore
64 bgs, O G Innes Corp, Singapore
DEXTRIN—200 bgs, Morningstar Nichols, Rotterdam
55 bgs, Bank of Manhattan Co, Rotterdam
DIESEL OIL — 42,017 bbls, Esso Export Corp, Aruba
DINITROCHLOROBENZENE—143 dms, Antwerp
DRUGS—3 bls, Superintendence Co, Rijeka
CRUDE—180 bls, U S Industrial Chemicals, Mombasa
11 cs, Mombasa
DYESTUFFS—31 dms, Sandoz Chemical Works, Genoa
1,202 cks, Heemsoth Kerner, Liverpool
200 dms, Sandoz Chemical Works, Rotterdam
1 dm, Geigy Co, Rotterdam
172 bgs, Heemsoth Kerner, Liverpool
22 dms, Heemsoth Kerner, Liverpool
EARTH COLORS—840 bgs, Whittaker Clark & Daniels, Mossel Bay
EGG ALBUMEN—21 cs, Olivier Co, Vancouver
ELDER FLOWERS—11 bgs, Superintendence Co, Rijeka
EPSOM SALTS—2,000 bgs, Interstate Chemical Corp, Hamburg
1,000 bgs, Elbert & Co, Hamburg
ERGOT EXTRACT—[illegible] Merck Corp, Rotterdam
ESSENTIAL OILS—22 dms, Dodge & Olcott, Itajai
12 dms, Dodge & Olcott, Hong Kong
15 dms, The Avia Co, Hong Kong
5 cs, Irving Trust Co, Marseilles
4 cs, Manufacturers Trust Co, Marseilles
6 cs, Roure-Dupont, Marseilles
2 cs, Tombarel Products, Marseilles
2 cs, Zanadu Manufacturing Co, Havre
3 cs, W Wanner, Havre
3 dms, Magnus Mabee & Reynard, Hong Kong
2 dms, George Lueders, Hong Kong
12 dms, Norda Essential Oil, Seville
7 dms, Fritzsche Bros, Seville
2 cks, Naugatuck Aromatics, Marseilles
2 cs, Tombarel Products Corp, Marseilles
2 cs, P Robertet Inc, Marseilles
8 cs, Camille Albert Lalove, Marseilles
EUCALYPTUS EXTRACT—7,501 bgs, Industrial Extracts Ltd, Fremantle
OIL—12 dms, Fritzsche Bros, Mombasa
FERTILIZER—3,000 bgs, Alltransport Inc, Rotterdam
23 bls, Chase National Bank, Sydney
FISHMEAL—1,667 bgs, Buenos Aires
FISH OIL—10 dms, International Commercial Co, Buenos Aires
FUEL OIL—656,444 bbls, Esso Standard Oil, Aruba
102,973 bbls, New England Petroleum, Punta Cardon
102,363 bbls, Paragon Oil Co, Curacao
117,773 bbls, Metropolitan Petroleum, Puerto La Cruz
95,933 bbls, Hess Inc, Curacao
101,973 bbls, White Fuel Co, Punta Cardon
63,000 bbls, Mexican Petroleum Corp, Aruba
53,644 bbls, Port Petroleum Corp, Curacao
GALANGAL ROOT—60 bls, Max Van Pels, Hong Kong
GALL, OX—7 bbls, Tupman Thurlow, Havana
CONCENTRATE—8 dms, Perry Ryer, Durban
6 dms, Chase National Bank, Liverpool
STONES—1 bx, Biddle Sawyer, Santos
GELATIN—25 bls, Coignet Chemical Co, Antwerp
100 bgs, Liverpool
5 bbls, Coignet Chemical Co, Rotterdam
3 cs, Coignet Chemical Co, Rotterdam
GLUE—600 bgs, Transatlantic Animal By-Products Corp, Rotterdam
40 bgs, Fulton Weeks, Rotterdam
100 bgs, Irving Trust Co, Rotterdam
BONE—330 bgs, Transatlantic Animal By-Products Corp, Lourenco Marques
1,999 bgs, Transatlantic Animal By-Products Co, Rotterdam
STOCK—62 bls, Buenos Aires
50 bls, National City Bank, Manila
GLYCERIN—95 dms, International Packers Commercial, Buenos Aires
18 dms, Rotterdam
150 cs, Manufacturers Trust Co, Rijeka
3 dms, U S Lines, Liverpool
576 tons, Lisbon
45 cs, Frank Sehr, Singapore
200 dms, Tata Inc, Bombay
SOAPLYE—100 tons, L Pasternak, Buenos Aires
GRAPHITE—250 bgs, Charles Pettinos, Colombo
1,000 bgs, Charles Pettinos, Mombasa
GYPSUM, CRUDE—9,937 tons, U S Gypsum Co, Hantsport
1,930 tons, Newark Plaster Co, Walton
18,379 tons, National Gypsum Co, Dingwall
HARDWOOD OIL—50 dms, Wilbur Ellis, Port Elizabeth
HAWTHORN FLOWERS—21 bgs, Superintendence Co, Rijeka
HERBS, AROMATIC—800 bls, Superintendence Co, Rijeka
IRIS ROOT—20 bls, Superintendence Co, Rijeka
IRON OXIDE—20 cks, J H Rhoades, Liverpool
5 cks, J A McNulty, Liverpool
1,100 bgs, Reichard Coulston, Bremen
440 bgs, T H Deutz, Bremen
440 bgs, T H Deutz, Bremen
BLACK—441 bgs, Transatlantic Pigment Corp, Bremen
KARAYA GUM—133 bgs, J D Gruman, Bombay
67 bgs, Stein Hall, Bombay
184 bgs, Innis Speiden, Bombay
LACTOSE—150 cs, Rotterdam
LANOLIN—150 dms, N I Malmstrom, Manchester
LAUREL LEAVES—120 bgs, Istanbul
LAVENDER FLOWERS—49 bgs, Marseilles
45 bgs, S B Penick & Co, Alicante
LEMON OIL—75 cs, Lo Curto & Funk, Santos
LEMONGRASS OIL—1 dm, La Libertad
LICORICE EXTRACT—1,515 bgs, W E Martin Co, Izmir
ROOT—337 bls, W E Martin Co, Izmir
175 bgs, W E Martin Co, Izmir
LITHOPONE—500 bbls, Philipp Bros, Rijeka
LOCUST BEANS—32 bgs, S B Penick, Alexandria
100 bgs, Levy & Lewis, Alexandria
GUM—128 bgs, Stein Hall & Co, Vila De Santonio
MACE—40 cs, K H Landes, Singapore
80 cs, John Kelly, Penang
32 cs, Catz American Co, Macassar
27 cs, W E Martin, Macassar
27 cs, John Holt, Macassar
12 cs, Otto Gerdau, St George
14 cs, John Holt, St George
25 cs, K H Landes, St George
25 cs, A G Dunn, St George
13 cs, Gillespie & Co, St Vincent
5 cs, Wessels Kulenkampff, Castries
1 cs, E R Gaubert & Co, Castries
140 bgs, Getz Import Corp, Singapore
MANGANESE ORE—2,240,000 lbs, E J Lavino, Takoradi
336 bgs, National Carbon, London
SULPHATE—178 bgs, A M Goldstein, London
MAGNESIUM CARBONATE—30 cs, Lo Curto & Funk, Liverpool
MANGROVE BARK—3,500 bgs, Irving Trust Co, Kilwa Kiswan
MEDICINAL HERBS—84 bls, Peek & Velsor, Leghorn
20 bls, S B Penick & Co, Rijeka
85 bgs, S B Penick & Co, Rijeka
LEAVES—13 bgs, S B Penick & Co, Leghorn
22 bgs, Becker Mayer Seed Co, Marseilles
SEED—124 bgs, S B Penick & Co, London
MENTHOL—50 cs, Bristol Myers, Shanghai
40 cs, Magnus, Mabee & Reynard, Shanghai
19 cs, Sembodja Corp, Shanghai
363 cs, Lo Curto & Funk, Shanghai
52 cs, Internatio Rotterdam, Shanghai
10 cs, Arnhold & Co, Shanghai
70 cs, R J Prentiss & Co, Shanghai
75 cs, P A Dunkel, Shanghai
25 cs, National City Bank, Shanghai
28 cs, Fleischman Burd, Shanghai
41 cs, Charles L Huisking, Shanghai
14 cs, Biddle Sawyer Co, Shanghai
7 cs, American Far Eastern Syndicate, Shanghai
1 can, Manufacturers Trust Co, Rotterdam
30 cs, Arnhold & Co, Hong Kong
70 cs, Paul A Dunkel, Hong Kong
METACRESONIC ACID—33 bbls, Geigy Co, Havre
MICA—134 cs, Siegried Cussel, Buenos Aires
15 cs, Vilco Inc, Buenos Aires
272 cs, S Gauguine Co, Buenos Aires
32 cs, Micacraft Products, Santos
83 cs, Cosmopolitan Trading Co, Rio de Janeiro
70 cs, Western Hemisphere Raw Materials, Rio de Janeiro
14 cs, Sigbert Loeb, Rio de Janeiro
54 cs, Brazilian Minerals & Timbers, Rio de Janeiro
47 cs, Eugene Munsell, Rio de Janeiro
1 cs, William Brand, London
224 cs, Sigbert Loeb, London
220 cs, Ford Radio & Mica, London
25 cs, Minerals & Insulation Co, London
12 cs, Western Hemisphere Raw Materials, Rio de Janeiro
11 cs, Minerals & Insulation Co, Calcutta
88 cs, Otto Gerdu, Calcutta
235 cs, Schwab Bros, Calcutta
82 cs, Cornelis & Suhr, Calcutta
120 cs, Whittaker Clark & Daniels, Calcutta
25 cs, Hal Delphin, Calcutta
113 cs, United Mineral & Chemical Co, Calcutta
11 cs, Habers Export Agencies, Calcutta
30 cs, Siegfried Cussell, Calcutta
333 cs, Asheville Schoonmaker, Calcutta
658 cs, Eugene Munsell, Calcutta
MILK SUGAR—100 cs, International Commodities Corp, Hamburg
MOLASSES—400 bbls, Colonial Molasses Co, Bridgetown
10 half bbls, Colonial Molasses Co, Bridgetown
MUSTARD SEED—200 bgs, Otto Gerdau Co, London
200 bgs, Amaren Trading Corp, London
NAPHTHALENE—495 bgs, Crowley Tar Products, Antwerp
640 bgs, American Cyanamid Co, London
1,000 bgs, Chematar inc, Marseille
NAPHTHENIC ACID—1,000 bbls, Stanco Inc, Aruba
NICKEL FORMATE—71 kegs, Guaranty Trust Co, Bremen
SULFATE—552 pks, Bluefries Inc, Rotterdam
NUTGALLS—420 bgs, Arnhold & Co, Hong Kong
700 bgs, Mallinckrodt Chemical Works, Hong Kong
336 bgs, Zinsser & Co, Hong Kong
100 bgs, Meer Corp, Hong Kong
NUTMEGS—350 bgs, A G Dunn, St George
25 bgs, Gillespie & Co, St Vincent
15 bgs, Wessels Kulenkampff, Castries
2 bbls, E R Gaubert, Castries
127 bgs, K H Landes, Macassar
OCOTEA CYMBARUM OIL—48 dms, National City Bank, Itajai
OLIBANUM GUM—9 bgs, Givaudan Co, Aden
OLIVE OIL—18 dms, National City Bank, Seville
30 dms, Seville
133 dms, First National of Chicago, Seville
49 dms, Public National Bank, Seville
183 dms, Manufacturers Trust Co, Seville
78 dms, American Trust Co, Seville
510 dms, Chemical Bank & Trust Co, Seville
139 dms, Irving Trust Co, Seville
100 dms, Jules Weber, Marseille
16 dms, Chase National Bank, Seville
17 dms, S Spiliadis, Barcelona
17 dms, M Moise, Barcelona
50 dms, Caruso Products Co, Barcelona
264 dms, A Fantis, Barcelona
116 dms, Castello Packing Co, Barcelona
25 dms, Dennis Giannatos, Barcelona
17 dms, Jules Weber, Barcelona
FOOTS—1,300 tons, Smith Wiehman Co, Lisbon
OURICURY WAX—28 bgs, J W Hanson, Rio de Janeiro
95 bgs, Cornelius Products, Rio de Janeiro
111 bgs, David Levin, Bahia
112 bgs, E B Ross, Salvador
112 bgs, W R Grace, Salvador
PAPAIN—3 cs, Chas L Huisking, Mombasa
8 cs, R J Prentiss & Co, Mombasa
8 cs, Mombasa
PAPRIKA—350 bgs, Alicante
PARACHLOROMETACRESOL—9 kegs, H A Gogarty & Co, Liverpool
PARAFFIN—10 bgs, Wedemann & Godknecht, Bremen
PATCHOULI OIL—3 dms, Lautier Fils, Penang
PEATMOSS—1,000 bls, E J Lang, Bremen
950 bls, New Amsterdam Import Co, Bremen
1,000 bls, Premier Peatmoss Corp, Dublin
781 bls, Marine Midland Trust Co, Bremen
400 bls, J E Bernard, Bremen
PENICILLIN PROCAINE—20 cs, Stock & Spanier, Southampton
PEPPER, BLACK—168 bgs, Joensson & Cross, Singapore
WHITE—74 bgs, Arthur G Dunn, Singapore
160 bgs, Internatio Rotterdam, Singapore
PERCHLOROETHYLENE—138 dms, Chemical Manufacturing Co, Liverpool
PETROLEUM CRUDE—126,736 bbls, Socony Vacuum Oil Co, Puerto La Cruz
100,222 bbls, California Refining Co, Ras Tanura
176,214 bbls, Esso Standard Oil, Cartagena
PHARMACEUTICALS—2 cs, Eli Lilly, East London
11 cs, American Roland Corp, Rotterdam
22 cs, Sandoz Pharm, Genoa
POLLACKLIVER OIL—170 dms, Wilbur Ellis, Yokohama
POPPYSEED—100 bgs, Catz American Corp, Rotterdam
200 bgs, Catz American Co, Rotterdam
POTASH, CAUSTIC—34 dms, Harry Dixon & Sons, Antwerp
45 dms, Bluefries Inc, Hamburg
POTASSIUM CARBONATE—20 bbls, Ferro Meta & Chemical Corp, Hamburg
402 bbls, Philipp Bros, Hamburg
CHROME ALUM—125 cks, Penson & Co, Gothenburg
23 dms, J E Bernard Co, Rotterdam
CYANIDE—39 dms, Liverpool
200 dms, Chemical Bank & Trust Co, Liverpool
260 dms, Central Hanover Bank, Rotterdam
METABISULPHITE—22 cks, Innis Speiden, Hamburg
MURIATE—3,627,900 kilos, French Potash & Import Co, Antwerp
PSYLLIUM SEED—11 bgs, R J Prentiss & Co, Trieste
273 bgs, T M Duche & Sons, Bombay
143 bgs, R J Prentiss & Co, Bombay
255 bgs, Parke Davis, Bombay
117 bgs, S B Penick & Co, Bombay
PYRETHRUM FLOWERS—125 bls, U S Industrial Chemicals, Mombasa
135 bls, John Powell, Mombasa
128 bls, U S Industrial Chemicals, Dar Es Salaam
PYRIDIN—14 dms, Tar Residuals, Liverpool
QUEBRACHO EXTRACT—2,865 bgs, River Plate Import & Export Co, Buenos Aires
9,052 bgs, River Plate Import & Export Co, Santa Fe
832 bgs, Chase National Bank, Buenos Aires
QUICKSILVER—539 bottles, Rijeka
RADIUM ELEMENT—1 cs, Radium Chemical Co, Antwerp
RESIN, SYNTHETIC—43 bgs, F L Kraemer, Manchester
2 dms, The Insulx Co, Rotterdam
RHUBARB ROOT—8 cs, R J Prentiss & Co, Shanghai
ROSEMARY OIL—5 dms, P Robertet, Barcelona
RUTILE SAND—5,000 bgs, Bank of New South Wales, Brisbane
SACCHARIN—50 dms, Bluefries Inc, Rotterdam
SAFFRON—2 cs, Marseille
SAGE LEAVES—201 bls, Marine Midland Trust Co, Rijeka
24 bls, W F Mahneke, Trieste
OIL—7 bbls, Rijeka
SCHEELITE CONCENTRATES—254,978 lbs, Metal Traders, Kobe
SEEDLAC—468 bgs, Bangkok
300 bgs, MacLac Co, Calcutta
300 bgs, United Shellac Co, Calcutta
400 bgs, W Zinsser, Calcutta
300 bgs, C H Timm, Calcutta
SESAME SEED—112 bgs, R J Soitz, Hong Kong
67 bls, Marine Midland Trust Co, Hong Kong
SHARKLIVER OIL—6 dms, Wilbur Ellis, Port Elizabeth
4 dms, Collett Week & Nibecker, Oslo
35 dms, Bank of California, Yokohama
SHELLAC—150 bgs, Haeuser Shellac Co, Calcutta
50 bgs, A Kramer, Calcutta
200 bgs, W Diehl, Calcutta
300 bgs, Mantrose Corp, Calcutta
500 bgs, W Zinsser, Calcutta
450 bgs, MacLac Co, Calcutta
500 bgs, Schwab Bros, Calcutta
200 bgs, C H Timm, Calcutta
100 bgs, Colony Import & Export, Calcutta
68 dms, F H Paul & Stein Bros, Rotterdam
SIENNA EARTH—23 cks, Reichard Coulston, Leghorn
SODA ASH—560 bgs, Ferrotar Corp, Marseilles
40 bgs, Bank of Manhattan, Liverpool
500 bgs, Libbey Owens Ford Glass Co, Antwerp
1,500 bgs, International General Electric, Antwerp
11 bgs, Guaranty Trust Co, Antwerp
CAUSTIC—131 dms, Sheldon & Co, Rotterdam
SODIUM CARBONATE—4,000 bgs, Enco Chemical Corp, Trieste
CYANIDE—700 dms, Central Hanover Bank, Rotterdam
800 dms, Central Hanover Bank, Rotterdam
MONOGLUTAMATE—150 dms, Wilbur Ellis, Yokohama
NITRITE—400 cks, United Sterling Corp, Hamburg
SESQUICARBONATE—728 bgs, Procter & Gamble, Liverpool
CRYSTALS—112 bgs, Chase National Bank, Liverpool
SULPHATE — 100 bgs, United Sterling Corp, Hamburg
STAR FLOWERS—25 cs, American Oak Preserving Co, Santos
STYRAX GUM—183 cs, Istanbul
SULFANILIC ACID—67 dms, J E Bernard, Rotterdam
SULPHURIC ACID—1,633,700 lbs, American Cyanamid Co, Thorold
TAPIOCA FLOUR—2,000 bgs, Itajai
3,634 bgs, Geismar & Co, Itajai
4,900 bgs, Stein Hall, Itajai
PEARLS—208 bgs, Morningstar Nicols, Tandjong Priok
TARTAR—400 bgs, Tartaric Raw Materials, Rotterdam
TEXTILE DYESTUFF—20 dms, Heemsoth Kerner, Liverpool
3 dms, Heemsoth Kerner, Liverpool
TRAGACANTH GUM—75 cs, V Simidian, Beirut
55 cs, Tragacanth Import Co, Beirut
TRICHLOROACETIC ACID—13 cs, W F Eissin, Bremen
TUNG OIL—603 tons, Hong Kong
224 tons, Bank of California, Hong Kong
112 tons, Pacific Vegetable Oil, Hong Kong
47 dms, Tukachinsky Bros, Hong Kong
126 tons, Hong Kong
110 tons, Arnhold & Co, Hong Kong
UREA—100 bgs, Harts Products Corp, London
552 bgs, National Shawmut Bank, Rotterdam
2,000 bgs, De Bear Inc, Rotterdam
260 bgs, Terra Chemicals, Rotterdam
VALONIA CUPS—4,813 bgs, Barkey Importing Co, Izmir
VANILLA BEANS—25 cs, Thyne & Winters, Marseilles
20 cs, Lo Curto & Funk, Rotterdam
10 cs, L A Champon, Zanzibar
25 cs, Lo Curto & Funk, Tandjong Priok
57 cs, Zink & Triest, Tandjong Priok
WATTLE BARK—275 bls, Olson Sales Agency, Durban
EXTRACT—600 bgs, M S Kattenhorn, Mombasa

WAX, REFINED — 85 bgs, Moore & Munger, Tandjong Priok
WHALELIVER OIL—75 dms, Brown Oil & Chemical Co, Oslo
35 dms, Collett Week & Nibecker, London
WHITING—300 bgs, H J Baker & Bros, Liverpool
1,120 bgs, Pluess Staufer, Antwerp
WOLFRAM ORE—275 bgs, National City Bank, Leixoes
100 bgs, National City Bank, Santos
ZIRCON SAND—8,900 bgs, Bank of New South Wales, Brisbane
ZIRCONIUM HYDROXIDE—27 cks, F W Berk, Liverpool
29 cks, F W Berk, Liverpool
ORE—1,000 bgs, Union Carbide & Carbon, Santos

Baltimore

BONEMEAL—2,205 bgs, Bradley & Baker, Hamburg
GLUESTOCK—177 bgs, Transatlantic Animal By-Products, Liverpool
HOOF MEAL—1,054 bgs, Elbert & Co, Buenos Aires
IRON OXIDE—450 bgs, Mineral Pigments Corp, Bremen
MANGANESE ORE—1,000 tons, Ore Trading Co, Calcutta
PARAFFIN—756 bgs, Socony Vacuum Oil Co, Tandjong Priok
POTASSIUM CARBONATE—271 cks, Innis Speiden, Hamburg
WATTLE BARK—2,800 bls, Olson Sales Agency, Mombasa
1,375 bls, Olson Sales Agency, Durban

Boston

AMMONIUM CHLORIDE—40 cks, National Shawmut Bank, Rotterdam
267 bgs, Rotterdam
CASEIN—1,000 bgs, Guaranty Trust Co, Buenos Aires
CRESYLIC ACID—100 dms, I M Sobin, Liverpool
EPSOM SALTS—500 bgs, National Shawmut Bank, Bremen

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GELATIN—160 bgs, Coignet Chemical Co, Antwerp
200 bgs, Rotterdam
GLUE, SKIN—300 bgs, Nicholson & Co, Antwerp
STOCK—30 bls, First National Bank, Rotterdam
214 bgs, A Bloch, Manchester
25 bls, E Butterworth, Manchester
29 bls, Gerhart L Kobrak, Buenos Aires
39 bls, First National Bank of Boston, Montevideo
IRAN GUM—122 bgs, Arnold Hoffman, Marseilles
IRISHMOSS—24 bls, Algin Corp, Dublin
LIME JUICE—40 cs, S S Pierce, London
MEDICINALS—40 cs, Rexall Drug Co, London
MICA—40 cs, Silvio Gaguine Co, Buenos Aires
NAPHTHALENE—2,500 bgs, Rotterdam
2,250 bgs, Antwerp
OSSEIN—1,000 bgs, Franco Belgian Trading Corp, Antwerp
1,630 bgs, Atlantic Gelatin Co, Antwerp
440 bgs, Rotterdam
PEATMOSS—400 bls, Brussels Corp, Bremen
POTASH, CAUSTIC—58 dms, Philipp Bros, Hamburg
QUEBRACHO EXTRACT—2,450 bgs, International Products, Buenos Aires
10,399 bgs, American Tanners Ltd, Buenos Aires
532 bgs, Chase National Bank, Buenos Aires
SACCHARIN CRYSTALS—20 cs, Rexall Drug Co, London
SHELLAC—10 dms, F H Paul & Stein Bros, Hamburg
WAX—22 bgs, Dings & Schuster, Bremen
SODIUM BICHROMATE—33 cks, I M Sobin Co, Antwerp
SULPHATE—6,000 bgs, Monsanto Chemical Co, Rotterdam
TAPIOCA FLOUR—375 bgs, Geismar & Co, Santos
4,216 bgs, Geismar & Co, Santos
TANNING EXTRACT—1 bbl, H A Gogarty & Co, London
WHITING—4,800 bgs, Pluess Staufer, Antwerp
ZINC CHLORIDE—50 bbls, I M Sobin, Rotterdam

Los Angeles

COTTON LINTERS—41 bls, Lilienthal Lee, Karachi
MEDICINAL SEED—40 bgs, Aggeler & Musser Seed Co, Marseilles

Newport News

CRESYLIC ACID—7 dms, Rotterdam

Norfolk

COCOA EXPELLER CAKE—2,431 bgs, Monsanto Chemical Co, Salvador
RESIDUE—1,600 bgs, Monsanto Chemical Co, Manchester
FERTILIZER—33 tons, Woodward & Dickerson, Bremen
KYANITE ORE—6,739 bgs, Golwynne Chemical Corp, Mombasa
UREA—5,000 bgs, Chemical Manufacturing Co, Liverpool
WATTLE BARK—1,651 bls, Hammond & Carpenter, Durban

Philadelphia

ANTIMONY—117 cs, Derby & Co, Rouen
ASBESTOS FIBER—300 bgs, Charles Kurz & Co, Lourenco Marques
500 bgs, Commercial Bank & Trust Co, Lourenco Marques
600 bgs, Magnesia Manufacturing Co, Lourenco Marques
6,160 bgs, Keasby & Mattison Inc, Beira
2,400 bgs, Keasby & Mattison Inc, Lourenco Marques
BABASSU OIL—250,000 kilos, Manhattan Soap Co, Sao Luiz Do Maranhao
BARYTES, CRUDE—4,001 tons, E I du Pont de Nemours, Walton
BERYL ORE—1,245 bgs, Western Hemisphere Raw Materials Corp, Victoria
BONES, CRUSHED—247,830 kilos, Baugh & Sons, Buenos Aires
2,353 bgs, Ovimpex Inc, Buenos Aires
1,200 bgs, Consolidated Chemical Co, Buenos Aires
3,990 bgs, C M Loeb Rhoades, Buenos Aires
GRIST—12,398 bgs, Baugh & Sons, Rosario
803 bgs, Elbert & Co, Buenos Aires
7,594 bgs, Elbert & Co, Rosario
5,991 bgs, Baugh & Sons, Rosario
MEAL—1,102 bgs, Elbert & Co, Rosario
BRASS WASTE—102 pks, Davies Turner & Co, Havre
CADMIUM—10 cs, Derby & Co, Rotterdam
CANARYSEED—550 bgs, Transatlantic Commodities, Casablanca
CASEIN—1,000 bgs, Eugenio Lang, Buenos Aires
500 bgs, East Asiatic Co, Buenos Aires
CHINA CLAY—5,615,016 lbs, Paper Maker Import Co, Fowey
1,318,016 lbs, John W Higman & Co, Fowey
7,023,632 lbs, Moore & Munger, Fowey
971,128 lbs, English China Clay Corp, Fowey
CHROME ORE—9,650 tons, E J Lavino & Co, Masinloc
1,795,535 lbs, Lourenco Marques
6,764,285 lbs, E J Lavino & Co, Lourenco Marques
COCONUT OIL—190 tons, Bank of New York & 5th Ave, Manila
COSMETICS—18 cs, Carson M Simon Co, London
CRESYLIC ACID—51 dms, Glasgow
5 dms, Charles Page Co, Rotterdam
DURALUMINUM SCRAP—136 bls, Union Bank of Commerce, Casablanca
FILTERPULP—50 bbls, John A Steer & Co, Rotterdam
FLUORSPAR—560,000 kilos, Havre
FUEL OIL—101,000 bbls, Esso Export Corp, Aruba
GAS OIL—65,275 bbls, Sinclair Refining Co, Puerto La Cruz
GASPURIFYING MATERIAL—506,000 kilos, Central Hanover Bank & Trust Co, Rotterdam
GELATIN—800 bgs, Bank of New South Wales, Brisbane
GLANDS, DRIED—40 dms, Rohn & Haas & Co, Buenos Aires
SHEEP—47 pks, 1st National Bank of Boston, Melbourne
GLUESTOCK—99 bls, Buenos Aires
204 bls, Edmond J Lang, Buenos Aires
GLYCERIN—40 dms, C J Schellings & Co, Rotterdam
19 dms, C J Schellings & Co, London
SAPONIFICATION—74 dms, Bunge Corp, Buenos Aires
GYPSUM, CRUDE—11,047 tons, U S Gypsum Co, Hantsport
LEAD—3,539 pigs, Bankers Trust Co, Port Pierre
MINERAL—73 dms, P Wilson & Sons, La Guaira
MANGANESE ORE—6,000 tons, Bank of Manhattan Co, Durban
METAL POLISH—35 cs, Carson M Simon Co, Manchester
MYROBALANS—696 bgs, River Plate Import & Export Co, Bombay
NAPHTHALENE—200 bgs, Tar Residuals, Liverpool
7,700 bgs, Chas Kurz & Co, Rio de Janeiro
ORTHOANISIDIN—5 dms, Bick & Co, Antwerp
PETROLEUM, CRUDE—103,324 bbls, Atlantic Ref Co, Cartagena
215,012 bbls, Atlantic Ref Co, Puerto La Cruz
202,566 bbls, Atlantic Ref Co, Ras Tanura
116,716 bbls, Atlantic Ref. Co, Mena Al Ahmadi
843,682 bbls, Socony Vacuum Oil, Mena Al Ahmadi
479,606 bbls, Socony Vacuum Oil, Covenas
163,847 bbls, H G Schad Co, Mena Al Ahmadi
354,288 bbls, Sinclair Oil Co, Tuxpam
115,957 bbls, Sinclair Oil Co, Amuay Bay

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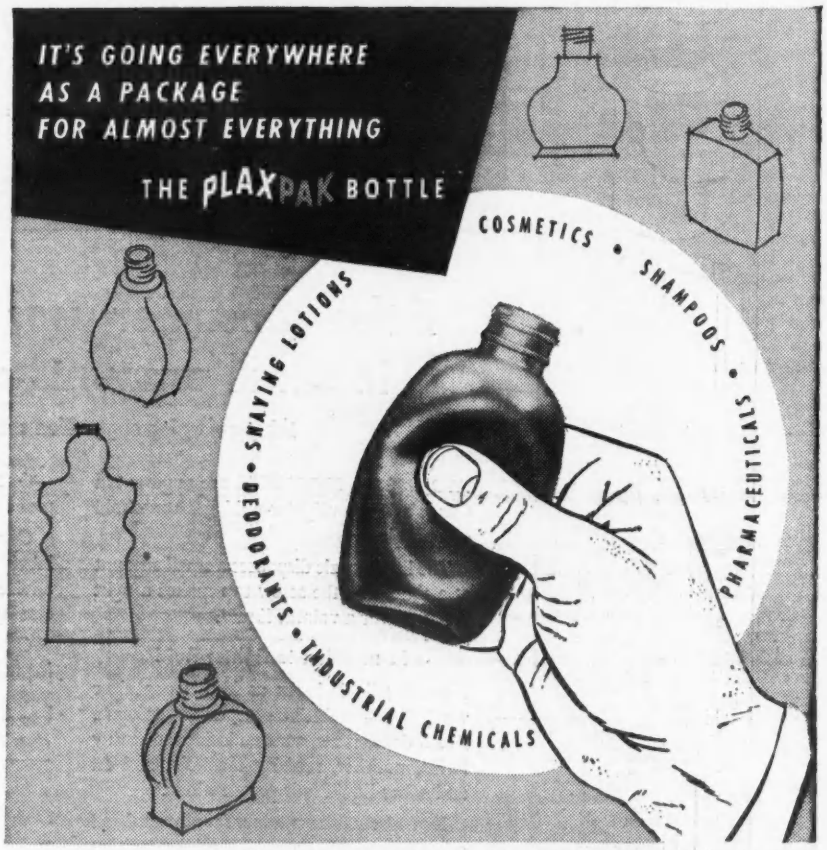
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225,921 bbls, Sinclair Oil Co, Puerto La Cruz
100,009 bbls, California Oil Co, Ras Tanura
4,797,786 gals, California Oil Co, Ras Tanura
418,157 bbls, Gulf Oil Corp, Mena Al Ahmadi
473,894 bbls, Gulf Oil Corp, Puerto La Cruz
103,434 bbls, Texas Oil Corp, Las Piedras
450,804 bbls, Texas Oil Corp, Puerto La Cruz

POLLACKLIVER OIL—31 dms, Philadelphia National Bank, Yokohama

POPPYSEED—150 bgs, Richard Spitz & Co, Rotterdam

POTASH SALT—2,250 tons, Philadelphia National Bank, Stettin

QUINOLINE RESIDUES—15 dms, John C Rogers & Co, Kobe

RUTILE SAND—1,600 bgs, Bank of New South Wales, Brisbane

SHARKLIVER OIL—10 dms, Silmo Chemicals Co, Yokohama

WASHING BLUE—320 cs, Carson M Simon, Manchester

WATTLE BARK—275 bls, Olson Sales Agency, Durban
1,034 bls, John Holt & Co, Mossel Bay

EXTRACT—600 bgs, Olson Sales Agency, Mombasa

ZIRCON SAND—1,000 bgs, Bank of New South Wales, Brisbane

RUTILE SANDS—8,000 bgs, Orefraction Inc, Brisbane
4,000 bgs, Foote Mineral Inc, Brisbane
4,460 bgs, Millmaster Chemical Corp, Brisbane

San Francisco

ALUMINUM INGOTS—69 tons, Miles Metal Corp, Yokohama

SCRAP—13 tons, Max Schlossberg & Co, Kobe

AMMONIA CATALYST—60 ctns, Hercules Powder Co, London

AMMONIUM PHOSPHATE—2,000 bgs, Wilbur Ellis & Co, Rotterdam

ASBESTOS—4,000 bgs, Pabco Inc, Montreal
33,349 bgs, Johns Mansville Co, Montreal

WASTE—6,960 bgs, Johns Mansville, Montreal
1,600 bgs, Pabco Inc, Montreal

BONE CRUSHED—425 tons, Consolidated Chemical, Buenos Aires
415 tons, Consolidated Chemical Industries, Buenos Aires

CANARYSEED—455 bgs, Bank of California, Rotterdam
454 bgs, C M Volkmann Co, Rotterdam
114 bgs, Rotterdam

CARAWAYSEED—300 bgs, D Hecht & Co, Rotterdam

CASEIN—240 bgs, New York Trust Co, Buenos Aires
500 bgs, East Asiatic Co, Buenos Aires

CASTORBEANS—659 bgs, Contra Costa Vegetable Oil Co, Taku Bar

CELERYSEED—85 bgs, D Hecht Co, Bombay
43 bgs, Joensson & Cross, Bombay
89 bgs, H M Newhall, Bombay

CHILLIES—50 bgs, Willits & Co, Kobe
67 cs, M S Cowen Co, Kobe
100 bgs, W R Grace & Co, Kobe

CINNAMON QUILLS—30 bls, Cunningham & Co, Colombo

COPAL GUM—32 bkts, Henry W Peabody, Tandjong Priok
248 bkts, O G Innes Corp, Tandjong Priok
108 bkts, D Hecht & Co, Tandjong Priok

COPRA—250 tons, El Dorado Oil Works, Bulan
1,000 tons, El Dorado Oil Works, Siam
1,600 tons, Cargill Inc, Cebu
500 tons, East Asiatic Co, Cebu
500 tons, El Dorado Oil Works, Ozamis
500 tons, El Dorado Oil Works, Catanavan
1,000 tons, El Dorado Oil Works, Borongan
500 tons, El Dorado Oil Works, Isabella
500 tons, Cargill Inc, Castanas

MEAL—2,000 bgs, Balfour Guthrie, Cebu
2,000 bgs, Balfour Guthrie, Manila

DAMMAR GUM—70 bgs, D Hecht & Co, Singapore
30 bgs, Henry W Peabody & Co, Tandjong Priok

EGG ALBUMEN—36 cs, Henningsen Inc, Taku Bar

GINGER—1 cs, American Import Co, Hong Kong

MACE—40 cs, Cunningham & Co, Colombo

MENTHOL—20 cs, A L Brenner & Co, Taku Bar

ORE CONCENTRATES—6 dms, American Smelting & Refining Co, La Union

PEPPER, BLACK—80 bgs, D Hecht & Co, Bombay
68 bgs, Internatio Rotterdam, Tandjong Priok

WHITE—30 bgs, Mincing Trading Co, Singapore

POPPYSEED—100 bgs, McClintock Stern & Co, Rotterdam

PYROTECHNICS—950 cs, Balfour Guthrie, Hong Kong
240 cs, Ti Hing Lung & Co, Hong Kong
250 cs, V J Loyatt Co, Hong Kong

QUICKSILVER—100 flasks, William Jacks & Co, London

ROSIN—25 cs, Vohryzecke & Co, Amapala

SESAMESEED—938 tons, Pacific Vegetable Oil Co, Taku Bar
1,196 bgs, Pacific Vegetable Oil Co, Taku Bar
300 bgs, H M Newhall & Co, Corinto
4,660 bgs, Pacific Vegetable Oil Co, Hong Kong

SHARKLIVER OIL — 30 dms, Wilbur Ellis Co, Yokohama

SHELLAC—50 bgs, Calcutta

SHOE POLISH—392 cs, London

SODIUM MONOGLUTAMATE—35 cs, Wilbur Ellis Co, Yokohama

TALC—30 bgs, All-Brite Trading Co, Genoa

TANKAGE—514 bgs, International Packers Commercial Co, Montevideo

TAPIOCA FLOUR—1,750 bgs, Internatio Rotterdam, Tandjong Priok
3,750 bgs, Stein Hall & Co, Tandjong Priok

GRAINS—60 bgs, Lucile Goodwin Glick, Hong Kong

SEED—50 bgs, H M Newhall & Co, Tandjong Priok

TUNG OIL—150 tons, S L Jones Co, Hong Kong

TUNGSTEN ORE—47 tons, Metal Trading Co, Kobe
1,064 bgs, Maersk Lines, Hong Kong

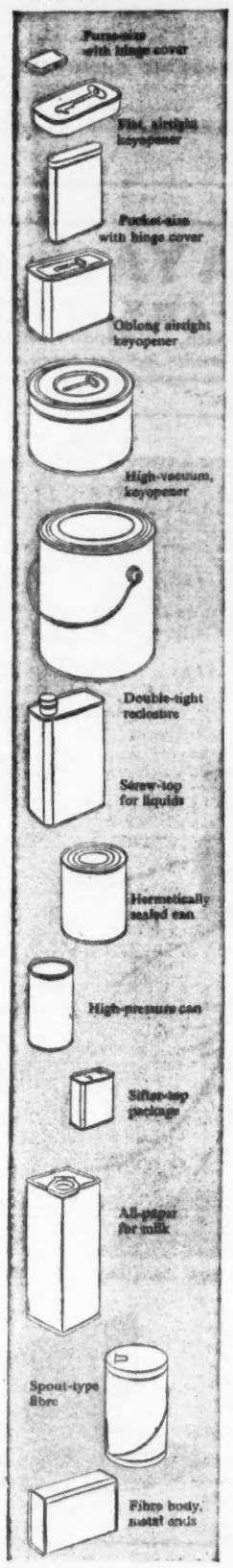
VANILLA BEANS—7 cs, S F Overseas Corp, Rotterdam

WHITING—2,000 bgs, N H Weitzner, Antwerp

Savannah

DAMMAR GUM—840 bgs, U S Industrial Chemicals Co, Singapore

WHICH PACKAGE SUITS YOUR PRODUCT?



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ECA to Cut Off Aid To Britain January 1

Marshall plan aid to the United Kingdom, which has included funds for the purchase of $61,757,000 worth of chemicals and related products from the United States since the start of the program in April, 1948, will be suspended on January 1, it was announced December 13, by William C. Foster, Administrator of the Economic Cooperation Administration.

Mr. Foster stated that the action has been made possible by the elimination of the dollar deficit in the sterling area and by the fact that Britain is included in the mutual defense assistance program now getting under way. The ending of ECA, coming in the third year of a four-year program, was a source of satisfaction to both governments.

It was stated that the United Kingdom will remain a full participant in the Organization for European Economic Cooperation (OEEC) and the European Payments Union (EPU). Certain ECA programs, in particular those for fostering overseas development, for production of scarce materials, and for the interchange of technical knowledge to encourage higher productivity, will be maintained.

Total Funds to UK Reported

Since the start of the ECA program through September 30, 1950, the United Kingdom received $2,655,500,000 of ECA assistance, the largest amount made available to any other country in the recovery program. Of this amount $1,360,400,000 was for food and agricultural commodities and $1,203,000,000 for industrial commodities. Technical service allocations amounted to $9,800,000; ship disbursements, $2,000,000 and ocean freight, $82,300,000.

The total funds received for purchase of chemicals and related products through September 30 was $71,400,000, larger than that granted to any other participating nation. All but $9,643,000 was for purchases in the United States.

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U.S. Urged to Use Surplus Potatoes for Alcohol Output

The government was urged to abandon plans for the dumping of an estimated 5,000,000 to 70,000,000 bushels of price-support potatoes in favor of a program to convert these potatoes into 45,000,000 to 50,000,000 gallons of industrial alcohol. The plea was made by Dr. Waldo L. Semon, director of pioneering research for the B. F. Goodrich Company, at a meeting December 14 of Trinity College students.

Dr. Semon pointed out that plants recently reactivated for the production of synthetic rubber will supply 60 percent of all rubber used in the United States by next March. He said that cull and surplus potatoes always should be considered as a source for industrial alcohol in an emergency.

Synthetic rubber, he stated, is now being produced at an annual rate of 430,000 tons compared with 220,000 tons at the beginning of this year. Production will reach the rate of 760,000 tons next Spring, and, in the event of war, an even greater production will be required. The one week spot in the picture, he emphasized, is the shortage of raw materials, with alcohol providing a major problem.

Huisking & Co. to Move To B'klyn After Jan. 1

Charles L. Huisking & Co., with its various divisions, will move after the first of the year from its present location on Varick street, New York, to 45 Clinton avenue, Brooklyn, N. Y. Huisking has purchased this plant and warehouse, which formerly housed Conti Products Corporation. Conti was recently merged into J. B. Williams Company, and is currently carrying on its operations in Glastonbury, Conn. The Huisking concern stated that a formal announcement of the date of removal will be made later.

Tracerlab Expansion Planned

Tracerlab, Inc., Boston, has contracted to purchase seventeen acres in West Concord, Mass., for the construction of a building to house engineering and manufacturing operations and several phases of the company's radiochemical program.

Synthetic Rubber Plant Producing in Louisville

Production has started at the $7,000,000, government-owned synthetic rubber plant in Louisville, Ky., it was announced last week by Kentucky Synthetic Rubber Corporation, operator of the property. Capacity of the plant, which has been closed since April, 1947, is rated at 2,500 long tons of general purpose synthetic rubber annually.

MCA Elects Two to Board

The Manufacturing Chemists Association has elected Dr. D. S. Frederick, vice-president of Rohm & Haas Company, Philadelphia, to a newly created directorship, and John E. McKeen, president of Chas. Pfizer & Co., Brooklyn, N. Y., to fill the vacancy on the board created by the death of the late John L. Smith.

D & O Issues Seasoning Kit

Dodge & Olcott, New York, has issued a "Spisoresin Kit" containing a sample of black pepper seasoning made from the firm's "Spisoresin" black pepper mixed with sugar and salt. The kit also contains a business reply card for those interested in getting samples of other "Spisoresins" along with a brochure describing the concern's line. The kit can be obtained upon request to D & O, 180 Varick street, New York 14.

Fertilizer Application Group To Meet Today in Chicago

The national joint committee on fertilizer application will hold its twenty-sixth annual meeting today in conjunction with the power and machinery division of the American Society of Agricultural Engineers at the Stevens hotel, Chicago. General chairman, A. L. Lang, will preside at both morning and afternoon sessions.

Ethyl Corp. Takes More Space

The Ethyl Corporation, which occupies the seventeenth, eighteenth and nineteenth floors at 100 Park Avenue, New York, has leased the twentieth floor, bringing the concern's total space in the building to 51,000 square feet.

Season's Greetings

TO OUR FRIENDS—OLD AND NEW

We take this means of expressing our sincere thanks for your patronage and your good will. We shall constantly strive to merit both.

May your happiness at Christmas and all through the New Year be complete.

From the entire staff of

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Botanical Drugs, Spices, Gums

Continued strengthening of botanical drugs brought a 4.0 points rise in the index which stood at 229.4 at the end of last week. Strong articles included belladonna, cascara, buckthorn, gingers, domestic hellebore, all sennas, doggrass, rhubarb and chamomile. Advances included such items of limited consumption as hyssop, prickly ash bark, queen of the meadow root, skunk cabbage root, and tansy leaves. Among condimental items, stopping of shipment offers made Honan and Yunnan cassia on spot more valuable. Dutch seeds were up for shipment, carrying spots with them. Cloves were in sensational advance everywhere with Zanzibar buying in Madagascar—which was something like China buying rhubarb in New York.

Interest in foreign botanicals continued to swell, almost in ratio to the growing fear that World War Three is far closer than appears on the surface. The interest has taken the form of a disposition of consumers to enter into contracts. One quarter said that the majority of its business was in contracts. Normally, it would be in immediate delivery transactions. This rising interest, however, has yet to spread to botanicals of domestic origin.

Exports of botanical drugs from this country last Summer played an important part in market activity. Much of this went direct to the domestic primary market collectors. In September, 157,353 pounds of cascara bark went to seven destinations; also a trifle of mandrake and ginseng. The following tabulation by the Department of Commerce gives September exports by countries and reveals the distribution of foreign trade in American botanics:—

	Pounds		Pounds
France	118,780	Union of South Africa	2,760
United Kingdom	40,486	Dominican Republic	2,430
Canada	21,748	Germany	2,242
Italy	16,734	Switzerland	16,402
India	15,346	Turkey	1,980
Belgium	14,472	Brazil	1,570
Austria	13,400	Colombia	1,495
Argentina	7,799	Norway	1,149
New Zealand	5,246	Finland	1,066
Cuba	4,376	Mexico	875
Australia	3,484	Liberia	500
Denmark	3,418	Japan	180
		Other countries	5,369

The total of unspecified exports in September was 303,351 pounds, valued at $117,786—or an average of 38.8c. per pound.

Balsams

Copaiba—The market was exceptionally firm on spot in response to the strength that continued to be reported from the origin. Also, demand has bettered considerably in local circles were stocks were moderate in all directions.

Fir—Though no higher, the market was fully as strong as ever. Canadian balsam stood at $3.150 to $32.50 per gallon and Oregon at the recent advance to $2.55 to $2.60 tended to rise still further because of the current replacement situation.

Peru—Few dealers would supply prompt deliveries at $1.25 per pound. Most of them wanted $1.30 as minimum and others asked upwards of $1.40 for immediate deliveries.

Tolu—The market was lowest at $4.65 per pound, at which only a few suppliers were disposed to take business. The range was to as high as $5 because of the lack of normal offerings from the origin and the exceptionally high price views of shippers.

Barks

Buckthorn—The market continued to rise, ordinary bark prevailing at 16c. to 18c. per pound, and the cut-sifted variety standing firmly at 22c. to 24c. in the absence of much competition.

Cascara Sagrada—Depending on where bark was bought and from whom, the market ranged 38c. to 40c. per pound and was declared to be exceptionally firm at all points.

Exports last September, according to the Department of Commerce, together with destination, were as follows:—

	Pounds
United Kingdom	118,695
Canada	16,683
Union of South Africa	8,000
Germany	4,770
Italy	4,296
Norway	2,500
India	2,408
Total	157,352

Fringetree—Some quarters still quoted as low as 53c. per pound but others declared no business would be taken under 62c. Most local suppliers who were able to offer wanted more than the minimum of spot quotations. Since 1948, the buying price in the primary market has risen fully fifty percent.

Prickly Ash—Sales at the higher price of 25c. to 28c. per pound have confirmed the steady development of a market with firming undertones in company with a lack of normal reserves.

Beans

Vanilla—The market held quite steady on spot but there were signs of a broadening of interest with respect to the purchase of replacement supplies in the primary markets. Even Java appeared to be seeking an enlargement of its export trade by expanding trade with the United States. Consumer demand for prompt delivery beans was not especially active last week but the business booked proved sufficient to hold quotations mainly steady in all directions. What might be done with a firm order in hand could be decided only at the time such trade came to market for satisfaction.

Berries

Juniper—Importers reported that foreign sshippers were loath to offer further quantities for export to the United States. It appeared that the large amount of arriving beans ordered detained by the Food and Drug Administration has brought caution to the shippers since importers here demanded that goods shipped be guaranteed to pass. The market grows steadily tighter.

Flowers

Chamomile—Scarcity sent Hungarian flowers to 95c. to $1 per pound. Consider-

Market Trends

Prices Advanced

Drugs

Belladonna root, 10c. per lb.
Boneset leaves, 3c. per lb.
Buckthorn bark, 2c. per lb.
cut and sifted, 2c. per lb.
Cascara sagrada bark, 2c. per lb.
Chamomile flowers, Hungarian, 10c. per lb.
Clover tops, domestic, 5c. per lb.
Doggrass root, imported, 2c. per lb.
Ginger root, African, 3c. per lb.
Jamaica, No. 3, Jan.-Mar. shipment, 2c. per lb.
Hellebore root, domestic, 5c. per lb.
Hyssop leaves, 10c. per lb.
Karaya gum, 6c. per lb.
Prickly ash bark, 2c. per lb.
Queen of the meadow root, 2c. per lb.
Rhubarb root, Chinese, 25c. per lb.
Skunk cabbage root, 5c. per lb.
Tansy leaves, 2c. per lb.
Tragacanth gum, 25c. per lb.

Other Articles

Caraway seed, Dutch, ½c. per lb.
Cassia, Honan, Yunnan, scraped, 1c. per lb.
broken, 1c. per lb.
unscraped, 1½c. per lb.
broken, 1c. per lb.
Saigon, thin, afloat, 3c. per lb.
Celery seed, Indian, ½c. per lb.
Clove, Madagascar, 3½c. per lb.
Zanzibar, 3½c. per lb.
Coriander seed, Argentine, afloat, ½c. per lb.
Cumin seed, Iranian, 2c. per lb.
Fennel seed, Syrian, ½c. per lb.
Montana brown, ¾c. per lb.
Montana brown, ¾c. per lb.
Pepper, white, 5c. per lb.
Poppy seed, Dutch, ½c. per lb.
Sage, Spanish, 1c. per lb.
Syrian, 1c. per lb.

Prices Reduced

Drugs

Squaw vine leaves, 5c. per lb.

Other Articles

Cassia, Batavia, shortstick, afloat, ½c. per lb.
Saigon, medium, 1c. per lb.
Coriander seed, Argentine, spot, 2c. per lb.
Mace, West Indian, broken, Dec.-Jan. shipment, 5c. per lb.
Mustard seed, Danish yellow, 1c. per lb.
Pepper, black, spot, 3c. per lb.
red, Nigerian caps, 1c. per lb.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 16, 1949
229.4	225.4	218.3	193.6	191.1

(For Current Prices see Page 9)

Imports Detained by FDA

Week Ended December 8

New York

Cassia, 1,200 bales: damaged by harbor water.
Chillies, 100 bags: water damaged.
Coriander seed, 810 bgs: filthy.
Mace, 27 cases: filthy.
Nutmegs, 47 bags: moldy and wormy.
Rosemary leaves, 47 bags: filthy.
Sage leaves, 83 bags: insect infested.
Sesame seed, 168 bags: water damaged.

Baltimore

Poppy seed, 108 bags: insect infested.
Psyllium husks, 11 bags: insect infested.

For Late Market Developments, See Page 4

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able uncertainty surrounded the future of supplies from continental suppliers. Wonder if a crop has been planted in Argentina this year? Should the worst happen and Europe be cut off again, an Argentine crop would become a valuable and needed property.

Clover — Very little domestic material was available and while 85c. was talked about, where spot goods were in hand between $1 and $1.05 was most often quoted as the market.

Linden—Addicts to linden flower tea—and they are many, abroad if not in the United States—find foreign market costs higher. As to spot goods, quotations were minimum at 25c. per pound and prominent importers actually asked as high as 35c. — which was substantially above the last replacement cables.

Gums

Benzoin—A firmer market appeared to be developing in keeping with a seasonal expansion in the requirements of some consumers. Price competition was a lessening force last week when most suppliers adhered to open quotations.

Myrrh—The primary sources of supply proved to be adverse to accepting bids; replacement prices were well maintained. Demand of a seasonal sort kept the spot market very steady.

Tragacanth—Some gum was damaged by water recently and the situation was serious enough to give considerably added firmness to the spot market which, on strictly No. 1 ribbon tragacanth stood at $3.75 to $4 per pound last week. However, it was said that a limited quantity might still be held by rug importers at $3.50 per pound. There were those who alleged that the spot market on the top grade of gum should be $4.50 but regular sources of supply failed to confirm either the price or the opinion.

Herbs and Leaves

Belladonna—The market was very firm. Furthermore, the European situation was such that some folks on spot were again thinking about the eventual restoration of large cultivation in this country. However, it was also indicated that the market here would have to be about $1.50 per pound before domestic cultivation could be profitable.

Boneset—Though an item of limited consumption, it was found last week that prices were actually up slightly to the basis of 18c. to 20c. per pound that quotations might more accurately reflect the rising costs of collection.

Hyssop — Leaves fetched 55c. to 60c. per pound in transactions last week and it was said that replacement buying was becoming more difficult at the foreign origins. Herb remained at 40c. to 45c.

Sage—Large business has been done in English leaves and spot goods were quoted 85c. to 86c. per pound. Spanish leaves were higher at 13c. to 13½c.; Syrian, 16c. to 16½c.

Senna — All reports stressed the difficulty—often times the inability—of importers to obtain goods either in Egypt or in India. Local prices rose no further but they were very strong.

Squaw Vine—This item moved contrary to the major price trend in botanical drugs last week; most changes were advances. But squaw vine was priced lower at 30c. to 40c. per pound, prevailing as to seller.

Tansy — Prices had been inactive for some time past but they awoke last week and ended the period higher at 30c. to 35c. per pound.

Miscellaneous

Irish Moss — Several lots have been bought in France, this after a considerable period in which French shippers had nothing to propose to this market. Prices at all points were firm to strong.

Papain—Well informed spot quarters indicated that good quality powder should bring $4.25 to $5.25 per pound, dependent on test. Furthermore, such directions also alleged the presence of considerable low grade material, testing "weak to zero activity." However, a reliable quarter continued to offer at $3.75 per pound which was not a great deal above latest prices received from Ceylon. Exports from Ceylon to the United States in the January-September period totaled 99,794 pounds, according to Ceylon Trade Figures released from Colombo.

Roots

Belladonna—Local quotations were up to 50c. to 55c. per pound, reflecting a growing strength in part caused by the uncertainty surrounding crop prospects in Europe.

Doggrass—Imported root brought 30c. to 35c. per pound last week and the mod-

erately higher price occupied a firm position in the absence of any tendency to shade at this time.

Hellebore — Domestic root was in low supply and any goods available were obtained at a high cost in the primary market this year. Spot quotations were up to 90c. to 95c. per pound.

Queen of the Meadow — Though not called for much of late, stocks in hand were bought at a primary market advance sufficient to make a spot price at 20c. to 25c. per pound relatively reasonable.

Rhubarb—The future supply of Chinese root was highly uncertain because of the Chinese communist army invasion of Korea which has forced Washington to require a license to export any products to China, Hong Kong, or Macao—the latter a Portuguese island in the Canton river. Shipments to the United States have been via Hong Kong. Creation of the license requirement caused a sharp drop in the Hong Kong dollar value of the United States dollar. Banking circles in Hong Kong advised that since China cannot buy freely in the United States, interest in acquiring dollar exchange has waned. All of which could mean that exports of Chinese rhubarb root to this country may stop. There remains India as a source of supply and prices there have strengthened.

Seeds

Caraway—Prices continued to rise in Holland, causing a further advance in spot quotations. Sales were made at 19½c. to 20c. per pound last week.

Celery—Indian seed recovered a price-fraction and was held firmly at 24c. to 25c. per pound last week. French seed was maintained firmly but unchanged at 33c. to 35c.

Coriander—Arrival of Argentine seed sent the spot price down to 15c. to 16c. per pound where competed with Moroccan seed at 22c. to 24c. per pound.

Cumin—The markets at all points were a deal firmer if not actually stronger. Spot quotations on Iranian seed were upped to 26c. to 26½c. per pound when Syrian seed disappeared from local circles.

Mustard — Danish yellow was shaded to 16½c. to 17c. per pound but the English item was higher at 16¼c. to 16½c. Montana brown seed at the source was up to 8c.

Poppy—Further advances in Holland made Dutch seed on spot more valuable at 19½c. to 20c. per pound. Argentine seed in afloat position was offered at 16c. to 16½c.

Spices

Cassia—The source made no offerings of either Honan or Yunnan cassia. Spot goods were revalued upward. Scraped material was 20c. to 21c. per pound; broken, 18½c. to 19c; unscraped, 18½c. to 19c.; broken, 17c. to 17½c. All thin Saigon cassia was higher at 50c. per pound in the afloat position.

Cinnamon—Ceylon was an advancing market last week and the No. 2 grade on spot was raised to 35c. to 35½c. per pound after a period of price inactivity at 32c.

Clove — Source markets were strong. That in Zanzibar was sensationally high at 35c. per pound for shipment in contrast with spot goods at 30c. to 31c. Madagascar spice on spot was up 31c. to 32c. per pound and 30c. was quoted on futures from the origin. Reports indicated that Zanzibar has been buying substantial quantities in Madagascar. Zanzibar shippers won't guarantee their goods to pass the Food and Drug Administration. Madagascar does.

Ginger—African root rose sharply to 41c. to 42c. per pound. No. 3 Jamaica root for January-March shipment was up to 48c. to 49c. The spot price on that quality was lower at 60c. to 61c.

Pepper—At midweek, spot black pepper was slightly lower at $1.56 to $1.57 per pound. December shipment yielded to $1.48 to $1.49 and January-March shipment was down quite sharply to $1.33 to $1.34. The spot quotations did not always mean that purchases could be made thereat; often times when a potential buyer went back to do business the seller revised his figures upward. Arrivals at the shipping ports in India have been reported as very light and a considerable short interest sought pepper to meet December committments. It was said that when the excesses of the July-August period have been worked off, the market will be well maintained for at least the next three months. White pepper was scarce and higher at $2.70.

Friday prices were as follows:—Black pepper, spot, $1.55 to $1.57 per pound; December shipment, $1.48 to $1.49, January-March shipment, $1.34 to $1.35.

Givaudan Has Aerosol Bulletin

Givaudan-Delawanna, Inc., has published a bulletin entitled, "Givaudan and the Aerosols." The publication describes in detail the special laboratory set up by the company for the formulation and testing of aerosol products. The bulletin is available upon request to Givaudan-Delawanna, Inc., 330 West 42nd street, New York 18.

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Essential Oils, Other Aromatics

Much unrest was in evidence in the essential oils and aromatic chemicals market last week. Speculations concerning the possible declaration of a state of national emergency with all its inherent manifestations, including probable price ceilings, have made both sellers and buyers proceed with great caution in their various commitments. In actual dealings, the trend of prices took a more definite upward direction than was seen in the preceding weeks. Advances were made in the quotations of fifteen oils, notably bois de rose, citronella, eucalyptus, lavandin, lavender flower and spike and wormseed oils. Five aromatic chemicals were moved higher. These included methyl benzoate, benzaldehyde, terpineol, eugenol and eucalyptol. The changes resulted in a price index of 191.1, an increase of 3.6 points over that of the previous week.

The most troubled spot in the market last week centered around French lavender oils and Spanish spike lavender oil. All cables received by dealers from the origins indicated acute advances in the cost of replacements. Many suppliers found it difficult to set a price on their material as each day brought higher shipping quotations. The general opinion was that prices were heading for still greater heights. Another change, the full effect of which has not yet been felt on the spot market, was a sharp rise in the price of clove buds. Some well placed handlers have been able to keep the oil market from following so far. However, the near future, according to observers, will bring greater firmness. A secondary result of this situation has been the marked advance in the price of eugenol.

Domestic materials, according to the trade, were almost all extremely firm. It was said that producers were holding on to their material in an attempt to see just how much the traffic would bear. In many cases, production was smaller than desired and primary suppliers were in a position to ask and receive higher prices. This has been clearly shown in the situation of wormseed oil, which has become exceedingly tight and expensive. Spearmint and peppermint oils were similarly stronger with indications of higher prices in the near future. All varieties of orange oil were on the upswing again as new crop material was awaited to replenish the depleted stocks.

Market Trends

Prices Advanced

Anise oil, 5c. per lb.
Benzaldehyde, 3c. per lb.
Bois de Rose oil, 20c. per lb.
Cananga oil, native, 20c. per lb.
rectified, 40c. per lb.
Cassia oil, 10c. per lb.
Citronella oil, Ceylon, 8c. per lb.
Eucalyptol, 40c. per lb.
Eucalyptus oil, 80-85%, 10c. per lb.
Eugenol, 40c. per lb.
Lavandin oil, 90c. per lb.
Lavender flower oil, 30-32%, 25c. per
Spike oil, 10c. per lb.
Lemon oil, Messina, 35c. per lb.
California, 25c. per lb.
Lemongrass oil, 5c. per lb.
Mandarin oil, Italian, 25c. per lb.
Methyl benzoate, 10c. per lb.
Orange oil, California, 15c. per lb.
Spearmint oil, 10c. per lb.
Terpineol, prime, 6c. per lb.
Wormseed oil, 40c. per lb.

Prices Reduced

None

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec 19
191.1	187.5	185.9	102.8	10

(*For Current Prices see Page 9*)

Essential Oils

Abies Siberica—This oil remained in a precarious position. No replacements have been received in many months and importers were reluctant to attempt to bring new material in, although there have been indirect offers from countries outside of Russian domination. What little material there remained to be sold on the spot market was held at $4 to $4.35 per pound. Dealers expressed the opinion that were conditions to continue as at present, it would be necessary for consumers to turn to substitute materials upon depletion of stocks.

Anise—Although the minimum spot quotation advanced only 5c. per pound to $1.30, replacement costs were reported to be up sharply, making it probable that future prices will be closer to the top price quoted last week at $1.65 a pound. Materially, the item was found to have grown tighter and was expected by observers to continue in that direction.

Bergamot—The spot market of natural oil continued unchanged last week. The lone offer at $6.25 per pound held and other bids ranging from $6.50 to $7 per pound were made. New crop material was expected by the end of this month. However, the Consortium in Italy remained silent as to future quotas. It has released no new material to this market for the past several months, although trading with other European countries was reported.

Bois de Rose—The withdrawal of the single low offer of the previous week moved the minimum quotation up 20c. per pound to $4.10 per pound. Elsewhere quotations ranged somewhat higher to as much as $4.75. According to the trade, replacements have advanced sharply and, in some cases, shipping prices were higher than some spot quotations. Shippers have been reported to be holding on to their material in an attempt to realize the highest possible returns. Demand from consumers was said to be extremely active.

Cananga—Firmer prices were indicated last week, when the native oil move 20c. per pound to a range of $5 to a pound and the rectified item adv 40c. a pound to $6 to $6.50. Materia not plentiful, but was reported adequate to meet the limited dema

Caraway—According to handlers, plies have been arriving in good qu from the Netherlands making for a fortable situation for trading. Inter the oil continued to be active and held firmly at $4 to $5.10 a pound.

Cassia—The small stocks still he dealers were priced a bit higher last at $4.75 to $5.50 per pound. Su were particularly tight and offers Hong Kong were few and high-price

Citronella—This market was fea by a very strong tone. With replace from Ceylon climbing steadily highe spot market took another jump. The est quotation made during the past stood at $1.70 per pound, at least 8 pound higher than previous offers. where prices ranged to $2.05. Acc to a report compiled in Ceylon, that try exported a total of 340,471 pour this material to the United States d the first nine months of 1950. Both Java and Java type oils were in li supply and quite stable in price.

Clove—According to a foreign pu tion, an estimate of the production o oil in Madagascar for the year of 19 dicated that it would exceed 800 tons report stated that collection of clov that island has averaged about 3,00 annually in recent years. This com to a range of from 600 to 6,000 to nually collected during the ten year ceding World War II. Spot price week were fully maintained at $2 $2.45 a pound and supplies were in good condition, although the price o was reported to have advanced shar

Dillweed—This market was in a of dormancy and activity was not e ed to be revived until at least the n of next spring when pickling begins Prices remained at the lowest le three years, ranging from $4.50 to $ pound.

Eucalyptus—In most quarters th moved higher again during the past The 80-85 percent grade was advanc 10c. per pound to range at $1.10 to per pound. There continued to b offer of 70-75 percent oil at 90c a p but most quotations were closer to t price of $1.10. Stocks were repor be extremely scarce and, this bein height of the season of consumptio such items as nasal inhalants, d were hard put to meet the require of customers.

Geranium — This market has rather quiet and prices in some q continued to grow easier. Algeri was offered at $22.50 to $26 per and Bourbon material could be pur at $24.50 to $27.50 a pound. Accord dealers, buyers were holding off wit heavy buying, choosing, instead, to the new crop which was in the proc distillation. No indication was giv yet, concerning the size of the yiel

Lavandin — With stocks here a France reported to be rather sma market position of this material w tremely firm, and spot prices were a higher at $4 to $4.50 a pound. Th as much as 90c. per pound above th vious quotations and was higher tha recorded during the past three yea

Lavender—Spike oil replacemen reported by dealers to have ad markedly. Spot prices were advance

For Late Market Developments, See Page 4

per pound in some places to $1.85. This price, however, was for material in warehouses. Based on replacements, prices of at least $2 per pound and up to $3.25 were quoted. According to observers, these prices may be expected to head still higher in the near future in keeping with the steadily rising flower and lavandin oil prices. French flower oil became very scarce on the spot market and in most instances moved much higher in price. Some quotations received were said to be largely nominal. The 30-32 percent ester grade was offered by one supplier at $4.25 per pound. Elsewhere it was priced as high as $5.85. The 38-40 percent grade was quoted at $5.75 to $8. and the 40-42 percent grade at $6 to $8.75 a pound. Reports of crop shortage were expected to keep these prices at this high level.

Lemon—On Thursday, one large producer of California oil advanced the price by 25c. per pound, making for a market of $4 to $4.50 per pound. Stocks were extremely limited and, in some cases, suppliers were unable to meet contract demands. One cause for the shortage, according to the trade, was the claim by shippers of a scarcity of cans in which to pack their wares. Concerning the position of the imported Italian article, there were varying reports. Mainly, however, cables received by dealers indicated some advance in shipping prices and the lowest spot quotation last week stood at $3.50 per pound, some 35c. higher than previously. Elsewhere prices ranged to $8 per pound.

Lemongrass—Another slight advance was made in the spot quotation of this oil, placing the range at $2.90 to $3.75 per pound. According to some handlers, there were ample stocks available to meet the needs of consumers, but prices for shipment at the origin were quite a bit higher. In fact, new material was being shipped at well above the minimum spot price.

Mandarin—The withdrawal of one low offer caused an advance in the range of quotations, which then stood at $5.50 to $8.50 per pound, depending upon brand. Supplies were in rather good condition and buying interest, while not large, was steady. Floridian material remained stable, prices being quoted at $1.90 to $1.95 per pound.

Niaouli—A small supply was reported but, the usual limited demand was adequately met at prices ranging at $1.95 to $3 per pound.

Nutmeg—Prices varied widely for East Indian material. Some offers were made at $3.70, while others, based on the advanced cost of the spice, were made as high as $5.50. West Indian material remained more stable, ranging from $3.65 to $4 per pound.

Orange—Last week brought another rise in the price of the Californian expressed oil, which was offered at $1.65 to $2 per pound, depending upon producer. This was an increase of 15c. per pound. One supplier was still in a position to offer the scarce Floridian material at the low price of $1.25 a pound. Elsewhere in the market prices were held between $1.50 and $1.90 per pound. Sweet distilled oil remained quiet at 75c. to 90c. a pound. The sesquiterpeneless oil was greatly advanced in price, being offered by very few dealers at $150 to $155 per pound. According to an estimate prepared by the Department of Agriculture, the 1950-51 crop of oranges in California was expected to total 40,400,000 boxes as compared with 41,930,000 boxes last season. In Florida expectations were for 61,000,000 boxes compared with 58,500,000 boxes last season. Freezing weather during November was said to have caused some damage to the Florida crop.

Patchouli—In a fair position of supply, this oil was offered at the unchanged range of $24 to $26 per pound. Within that range, individual suppliers reported slight easing of prices. However, the general aspect of the market was one of stability.

Peppermint—The spot market began to show signs of additional price strength, based on replacement. However, the fact

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that some suppliers were fairly well placed has kept the range of quotations unaltered, as yet. A report originating in Ireland stated that one acre of peppermint was cultivated experimentally this year in Leixlip, County Kildare. Oil distilled from this growth was said to be of a quality on a par with that produced in England, where it was sold.

Rose—Following a short period of relaxation, this item again began to show signs of strengthening. As a product originating in Soviet-dominated Bulgaria, its future was extremely uncertain. Just when material might be expected and whether it would be brought ashore were points open to conjecture. Spot quotations ranged widely, from $33 to $45 per ounce.

Spearmint—As was predicted by observers, the spot market was advanced last week. Prices ranged from $4.75 to $5.25 per pound. The market was extremely strong and offers received from the country were higher than in previous weeks, giving rise to suspicions of further advances in the near future.

Wormseed—The low price maintained by one supplier having been withdrawn, the minimum spot quotation was 40c. per pound higher at $6.75. Other offers ranged to $7.50 a pound. Aggravated by a short crop and increased cost of production and labor, the shippers in the country have been holding what little remained for higher returns. In the opinion of the trade, this article may be expected to become more expensive before long.

Aromatic Chemicals

Anethol—While the material continued to be very difficult to obtain, prices have been held at a fairly stable level. They ranged from $1.18 to $1.50 per pound. Few transactions were made, however.

Benzaldehyde—Based on the shortage of available basic materials, this chemical was advanced 3c. per pound last week. Quotations ranged from 73c. to 78c. per pound, depending upon quantity.

Citral—According to producers, the renewed firmness featured by the lemongrass market, both on spot and at the origin, was beginning to affect the position of this derivative. As yet, price have not changed, remaining at $5.75 to $6.50 per pound. However, it was indicated that

—*Continued on page 94*

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Protective Coatings Materials

Cadmium colors moved up 10c. per pound last week, following the recent advance of 15c. in the price of cadmium metal. Demand was going better than supply and appeared likely to continue that way. Domestic standard casein was up ½c. and Argentine went higher by 1c. The demand for domestic was good and the supply was about balanced with it. Demand for the Argentine was greater, but stocks were low despite the fact that this was the flush season. Lemon No. 1, No. 2, superfine and TN grades of shellac were higher by 1c. Bleached bonedry and refined were 1½c. higher in bags and 2c. higher in barrels and kegs. The demand for them was holding at better than expected levels for this time of the year. Stearic acid rose 2c. last week and this was reflected in rises of similar amounts in the listings of the various stearates. The demand for them was at good levels and while the supply was sufficient for ordinary ordering, it was not what could be called abundant. Tricresyl phosphate climbed 2¾c. in tanks and 3c. in carloads and less carloads. Prices of different producers varied slightly and therefore there was a thread to the listings, where formerly prices had been uniform. Zein increased 2c., marking the first change in that item in almost two years.

Antimony oxide continued in strong demand and there were fears that if the mill held at present levels there would not be enough for the market. The government had recently taken considerable amounts for flame proofing. Lead and zinc pigments, in the absence of changes in the price of their metals, remained at former levels. Nickel oxide held, although the metal rose last week. However, there was no guarantee that it would continue to hold.

The situation in synthetic resins became a little more difficult as an increase in formaldehyde brought with it an increase in the price of pentaerythritol, which would have a bearing on certain of the resins. Natural resins seemed to be without any particular change. The supply situation abroad was not as reliable as the trade here would like to see it. Phthalates were in a stronger position as a result of the stronger tone in phthalic anhydride.

Prime Pigments

Antimony Oxide—The low side of the price range was without change during the past week although there was a new high-of-the-range listing for the material in carload lots. This made the schedule 35c. to 36c. per pound carloads and 35c. to 37c. less than carloads. The demand was strong along at a strong clip at this time and the supply left something to be desired. One source said it thought there might not be enough available for the market if the demand continued at the present rate and pointed out that the government recently had been in the market for considerable amounts of the material for flame proofing.

Cadmium Colors—The recent increase of 10c. per pound in the price of cadmium had its repercussions in the price listings of the colors during the past week. The various colors rose 10c. per pound. Demand was running considerably over supply at this time and the indications were that it would continue that way. Because of the high demand and the relative shortness of the supply, allocations imposed by the producers were the normal thing in the market.

Lead Pigments — The market for the metal was in a steady position, with the demand good last week, although there were no changes reported in the listings and therefore there were no revisions made in the prices of the pigments. They, too, continued in good demand.

Luminescent Pigments—Listings of calcium strontium, phosphorescent; calcium sulphide, fine particle size, and calcium sulphide, phosphorescent, recently obtained are included in the prices current section of this issue of OPD. The first item, in 50 and 100-pound containers, in lots of 100 to 999 pounds, is listed at $3.40 to $3.50 per pound at the works; the second item, sold on the same basis, is listed at $3.65 to $3.75 per pound and the third, also on the same basis, at $2.85 to $2.90 per pound.

Nickel Oxide — Although nickel metal went up in price by 2½c. during the past week there was no change reported in the listing of the oxide.

Zinc Pigments—Zinc metal continued strong last week and was the scarcest of the non-ferrous metals. The price, however, was holding and therefore there were no changes reported in the listings of the pigments. Demand for the pigments continued at a high rate, as it had been doing for some time and was likely to do for at least the foreseeable future.

Output of zinc oxide in October rose nine percent to 20,576 short tons, according to the Bureau of Mines. This was the highest monthly rate since March, 1950. Inventories on March 31 were 10 percent above the September 30 total. This was largely the result of a 45 percent gain in stocks of leaded zinc oxide. Output rose 10 percent to 6,419 tons and production of lead-free oxide was 14,157 tons or eight percent above September. In the case of lead-free oxide, the total was the highest monthly rate since May, 1950. Sales of zinc oxide declined seven percent to 19,672 tons as lead-free shipments were four percent below September and leaded zinc oxide sales were fifteen percent less than last month.

Synthetic Resins

An increase in the price of formaldehyde brought with it an upping in the price of pentaerythritol by 2c. last week. This would naturally have its effect on rosin modified pentaerythritol resins and a few of the alkyd resins. This was not a novel situation in the synthetic resins market, where raw material costs were mounting steadily as they, or at least many of them, became harder to get. Demand for the synthetics held at the same strong clip that had been noted for some time past. Another material that rose last week was phenol, which went up as much as ¾c. in some quarters.

Natural Resins

Prices were holding at about their previously established levels. The situation at the source for the various gums was not as clear as it might be and therefore there was some difficulty in setting

Market Trends

Prices Advanced

Cadmium colors, 10c. per lb.
Casein, domestic, standard, ½c. per lb.
Imported, acid-precip., 1c. per lb.
Shellac, Lemon No. 1, No. 2, superfine, TN, 1c. per lb.
Bleached, bonedry and refined, 1½c. in bags; 2c. in barrels and kegs.
Stearates, 2c. per lb.
Tricresyl phosphate, 2¾c. in tanks, 3c. in carloads and less carloads.
Zein, 2c. per lb.

Prices Reduced

Rosin, gum, Savannah, F, G, H, 5c. per 100 lbs.
I, 7c. per 100 lbs.
M, N, 6c. per 100 lbs.
WG, 5c. per 100 lbs.
Turpentine, gum, Savannah, 2c. per gal.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 16, 1949
212.2	212.2	211.7	196.4	196.4

(For Current Prices see Page 9)

Paint, Varnish, Lacquer Sales: October

The value of sales of paint, varnish, lacquer and fillers in October, 1950, as reported by 680 establishments to the Bureau of Census, was $100,216,528. These establishments accounted for approximately 90 percent of the total value of the output of the industry as reported in the Census of Manufacturers for 1939. Included are data on sales of water-thinned paints and nitrocellulose lacquers, which formerly were published separately but have since been discontinued. Details of sales reported with comparative data for 1949 follow:—

	Total sales reported by 680 establishments	Classified sales reported by 580 establishments: Trade-sales of paint, varnish, and lacquer	Industrial sales: Total	Industrial sales: Paint and varnish	Industrial sales: Lacquer	Unclassified sales reported by 100 establishments
October	$100,216,528	$49,230,156	$41,123,946	$29,896,649	$11,227,297	$9,862,426
Total, 10 months	959,120,420	523,938,629	344,618,592	253,064,829	91,553,763	90,533,199
1949—October	75,959,802	40,159,408	28,597,160	21,294,721	7,302,439	7,203,234
Total, 10 months	816,554,105	452,408,125	284,881,083	214,710,328	70,170,760	79,254,892

For Late Market Developments, See Page 4

STEARATES

ALUMINUM
ZINC
CALCIUM
MAGNESIUM
BARIUM

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BOSTON — Mulcahy & Griffin
BUFFALO — Wetherbee Chemical Co.
CHICAGO — Philip E. Cale Co.
CINCINNATI — Deeks & Sprinkel
CLEVELAND — Norman G. Schabel Co.
DETROIT — D. H. Osgood Co.
HOUSTON — Joe Coulson Co.
KANSAS CITY — John T. Kennedy Sales Co.
LOS ANGELES — E. B. Taylor Co.
LOUISVILLE — Deeks, Sprinkel & Miller, Inc.
MONTREAL, CAN. — Wm. J. Michaud Co., Ltd.
NEW ORLEANS — Russell Chemical Co.
PHILADELPHIA — Loos & Dilworth, Inc.
PITTSBURGH — B. Ostroff
PORTLAND, ORE. — Miller & Zehrung Chemical Co.
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prices here, but by and large it could be said that they had not changed a great deal during the period. Supply was not free but on the other hand it was not as bad as it could be. There were not many Congo offers at this time, but offers from Mascassar were coming in at a fairly good pitch and Singapore was reported to be giving the market here no particular difficulty. The demand was at reasonably good levels here, although in recent months there had been some falling off of interest because of the difficulties in obtaining some of the gums. It was said that there might be a pickup in interest after the first of the year. Synthetics were in a generally tight supply position and that was reported to be having some effect in boosting the demand for natural resins.

Shellac—Bleached bonedry and refined went up 1½c. in bags and 2c. in barrels and kegs during the period under review and there were advances in lemon, superfine and TN. They advanced 1c. per pound. The demand was holding up at what were characterized as good levels for this time of the year. Supply here was sufficiently strong to accommodate the ordinary demands of the market. The international situation was having its effect on the India market, which was reported to be in an excited state, with heavy buying going on.

Lacquer Materials

Phthalates—The trend towards higher prices in phthalic anhydride, plus the fact there is not a great deal of it available, has had a strengthening effect on the phthalates listings, with the result that there have been upward fluctuations there in the last two weeks. Price moves have not been uniform in every case, but the variances among producers, where they do exist, are not great. The latest prices that could be obtained at the close of the business day Friday are to be found in the prices current section of this issue.

Tricresyl Phosphate—This material advanced in price by 2¾c. in tanks and 3c. in carloads and less than carloads during the past week. Previously prices had been without a range but last week's changes varied so that there became a spread of ¼c. Demand was reported to be so great that products were unable to catch up with it, in spite of all they could do. One source reported that it had put in an allocation program in an effect to be as fair about distribution as possible. It gave first priority to direct government contracts, second position to orders that were backed up by DO ratings and third place to old, established customers.

Miscellaneous Materials

Casein—Both domestic standard and imported material rose in price during the period under review. The former was up ½c. to 39½c. to 40½c., while the Argentine goods rose 1c. to become 39c. to 39¼c. The demand held at fairly good levels for the domestic material. It was not exactly booming but it was brisk enough and most consumers were found to be taking just enough material to keep them going. This meant that producers were filling more orders of smaller size. Supply was at good levels, with neither surpluses nor pinches featuring the market.

The Argentine market was very strong and it was hard to obtain offers. The expectation here was that prices would go higher. The demand, even at present prices was pretty active, although some mills were said to be holding back and even thinking of substitutes because of the price of the Argentine material. There were no stocks on hand in the Argentine, even though the peak of the flush season is only about two weeks off. Europe wants to buy material from the Argentine. It has little or nothing to sell. There have been some offers from France but they were generally considered insignificant here.

The production of dry casein in October remained at high levels compared with a year ago, according to the Bureau of Agricultural Economics. Output of 1,400,000 pounds was the highest for the month since 1947, 74 percent above a year earlier, and 42 percent higher than the five-year average for the month. A total of 17,080,000 pounds was produced during the first 10 months of 1950. This was a gain of four percent over the comparable months a year ago, but it represented a decline of three percent from the 1944-'48 average. The stocks held by manufacturers at the end of October were estimated at 2,375,000 pounds, and although this was up 71 percent from the record low for the date a year ago it was down 44 percent from the end-of-October average for 1944-'48. Stocks for the end of October have varied from 1,390,000 pounds in 1949 to 13,300,000 pounds in 1942.

	Stocks	Production
October, 1950	2,375,000	1,400,000
September, 1950	2,650,000	1,750,000
October, 1949	1,390,000	805,000
1944-'48 average, October	4,254,000	989,000

Glue, Hide—The total production of this material during the month of October was reported to be 6,497,785 pounds, as compared to 5,158,602 pounds for the

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FACTORY: NEW MARKET, NEW JERSEY
AGENTS AND STOCKS IN PRINCIPAL CITIES

month of September. It was considerably higher than the production of October a year ago, when the figure was 4,901,688 pounds. These figures are from the Bureau of Census. Shipments in October showed a gain over those of September. The figure for September was reported to be 6,830,219 pounds, while for September it stood at 6,024,656 pounds. During October a year ago they amounted to only 5,310,345 pounds. Stocks at the end of October of this year totaled 7,935,781 pounds, which was a lower figure than that for the end of the previous month, when the stocks stood at 8,268,215 pounds. A year ago, however, the stocks at the end of October amounted to 13,542,203 pounds.

Gypsum—A record demand for gypsum products during the third quarter was matched by record production, according to the Bureau of Mines. During the third quarter domestic production exceeded 2,000,000 tons. Domestic mine production of crude gypsum totaled 2,199,260 short tons, an increase of thirty-six percent over production in the corresponding quarter of 1949.

Production of crude mined during the third quarter of this year amounted to 2.199,260 short tons as compared to 1,615,484 during the comparable period last year. Calcined production came to 2,047,034 short tons in the third quarter of this year while they totaled 1,418,304 short tons in the comparable period last year. Cement retarder production in the period this year was 496,819 short tons as opposed to 404,391 the year before during that time. Base coat plaster production registered 693,948 tons this year in the third quarter and 514,531 in the corresponding time a year ago. Total board output during the period for this year was 1,520,833,000 square feet while during the period last year it was 1,148,761,000 square feet.

Stearates—An increase of 2c. a pound in the price of stearic acid last week brought with it increases of a similar amount in the listings of the various stearates. Demand continued to hold at good levels and the indications were that it would go on that way. Although the supply was not in what could be called a desperate condition, it was not so strong that there were any surpluses to be found on the market. Following are the latest prices of the various stearates:—Aluminum, dibasic, monobasic and tribasic, 40c. in carloads and 41c. in less than carloads; barium, 44c. to 45c. in carloads and 45c. to 46c. in less than carloads; calcium, 40c. in carloads and 44c. in less than carloads; copper, 49½c.; iron, 44c. in drums carload, 45c. in ton lots and 46c. in less than ton lots; lead, precipitated, 46c. in barrels carload, 47c. in ton lots and 48c. in less than ton lots; magnesium, 45c. in carloads and 46c. to 47c. in smaller lots; manganese, 45c. to 46c. in carloads and 47c. in smaller lots; zinc, technical, USP, 44c. in carloads, 45c. in ton lots and 46c. in less than ton lots.

Zein—The first price change in almost two years occurred last week when this material rose 2c. per pound. The demand held at very good levels, with considerable call for its use in shellac substitutes, floor finishes, and label varnish. The supply, however, left something to be desired. The new price schedule became:—in carload lots of 36,000 pounds or more, 32c. per pound; in less than carload lots of 1,000 to 36,000 pounds, 34c., and in less than 1,000 pound lots, 37c. per pound.

Naval Stores

The record of the gum naval stores markets during the week ended December 15 was as follows:—

Gum Rosin

	Price per 100 lbs.						
	Savannah Exchange (Low of range)					New York c.l., l.c.l., f.o.b. ex N. Y. whse.	
	Mon.	Tues.	Wed.	Thurs.	Fri.	Friday	
B	$8.00	$8.00	$8.00	$8.00	$8.00	$9.25	$10.00
D	8.00	8.00	8.00	8.00	8.00	9.25	10.00
E	8.00	8.00	8.00	8.00	8.00	9.25	10.00
F	8.18	8.15	8.13	8.13	8.13	9.25	10.00
G	8.18	8.15	8.13	8.13	8.13	9.35	10.10
H	8.18	8.15	8.13	8.13	8.13	9.35	10.10
I	8.20	8.15	8.13	8.13	8.13	9.35	10.10
K	8.20	8.15	8.13	8.13	8.13	9.35	10.10
M	8.20	8.15	8.14	8.15	8.14	9.35	10.10
N	8.20	8.15	8.15	8.15	8.14	9.35	10.10
WG	8.55	8.50	8.50	8.50	8.50	9.65	10.40
WW	8.75	8.75	8.75	8.75	8.75	9.95	10.60
X	8.75	8.75	8.75	8.75	8.75	9.95	10.60

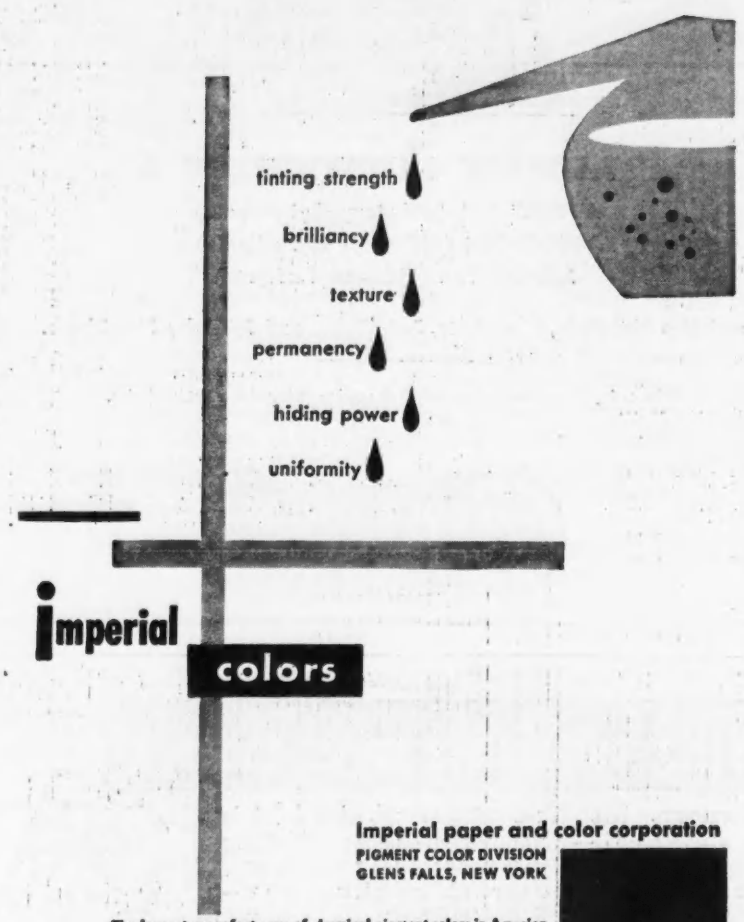
	Drums				
Sales	...	235	183	75	111
Receipts	1,188	1,729	127	1,646	735
Shipments	...	...	121	152	...
Stocks	24,659	26,388	26,394	27,888	28,623

Gum Turpentine

New York, Friday, tankcars, f.o.b. gal. (7 lbs.). .90
ret. dms., l.c.l., ex whse.... gal. (7 lbs.). 1.00

	Savannah Exchange, Bulk				
	Mon.	Tues.	Wed.	Thurs.	Fri.
Per gal.	.81	.80	.79	.79	.79
Sales, bbls.	...	1,660	160	...	...
Receipts, bbls.	1,296	634	504	86	...
Shipments, bbls.	...	97	...	87	14
Stocks, bbls.	15,053	15,390	16,094	16,093	16,079

Pine Gum—Prices received by producers for crude pine gum delivered to processing plants during the week ended De-



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cember 9 averaged $29.24 per standard barrel of 435 pounds, according to the Department of Agriculture. This was an increase of $1 over the average of the previous week.

The twenty-two reporting plants received 28,532 barrels of gum, an average of 1,297 barrels per plant, compared with 1,120 barrels a week earlier. The contents per barrel averaged 8.64 gallons of turpentine and 296.1 pounds of rosin. The gum was graded 9 percent WW, 6 percent WG, 27 percent N, 32 percent M, and 26 percent K and below.

N. Y. Exchange Announces New Soybean Oil Contract

The New York Produce Exchange has announced the establishment of a new soybean oil futures contract to be known as the "Demand" or "D" contract. Trading in the "D" contract will commence on January 2, 1951, for the March, 1951, future and subsequent months. The new contract calls for either warehouse or track delivery, but will not replace the present "Warehouse" or "W" contract, which provides for delivery by warehouse receipt only.

The "D" contract was instituted at the request of the soybean oil trade, and is designed to expedite the delivery of prime crude soybean oil which is the same grade now deliverable on the present "W" contract. The demand certificate requires prompt shipment of the oil in tankcars. All shipments made under the new contract, however, must be made not later than the last day of the delivery month.

Delivery by demand certificate, the trade believes, should prove attractive to industries that are in immediate need of the prime crude soybean oil. Thus, this reduces the possibility of tying up storage space for varying periods of time allowing processors who have limited warehouse space to facilitate their deliveries.

Nu-Enamel Assigns Jefferds

Vincent H. Jefferds has been appointed eastern sales manager for the Nu-Enamel Corporation, Chicago. Mr. Jefferds formerly was assistant to the president of the Times Square Stores Corporation.

Naugatuck Chemical Opens Office in Charlotte, N. C.

Naugatuck chemical division, United States Rubber Company, Naugatuck, Conn., has announced the opening of a new area office at 611 West Fifth street, Charlotte, N. C. At the same time, the company appointed three new technical representatives and named an assistant to the sales manager of latices and dispersions.

The new Charlotte office will provide service for customers in a territory comprising North and South Carolina, Georgia, Florida, Tennessee, Alabama and Louisiana. Claude H. Allard has been named technical representative covering these states from the Charlotte office.

Charles L. Howard has been appointed technical representative for the Akron, Ohio, territory, succeeding Albert J. Marshall, now owner of the Ryan Rubber Company, Dallas, Tex. D. Leete L. Keefer has been named technical representative in Connecticut and upper New York state, while Arthur Thomas has been appointed assistant to the sales manager of latices and dispersions.

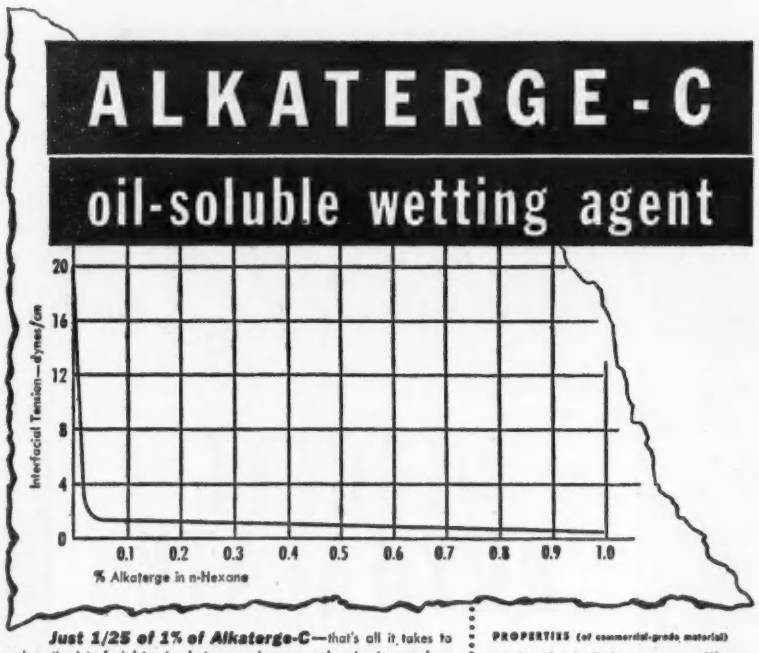
Phila. Paint Technicians Slate Meeting Wednesday

The Philadelphia Paint and Varnish Production Club will hold its next meeting December 20 at 6:30 p.m. at the Engineers Club in that city. The program will include an outline of research done at Lehigh University under sponsorship of the club and several short reviews of papers presented at the Chicago convention.

Metal Can Shipments: Sept.

Total shipments of metal cans during September, 1950, declined 10 percent below August, but were 9 percent above September, 1949, according to the Bureau of Census. These figures are based on metal can shipments expressed in terms of the weights of steel consumed in the manufacture of the cans shipped. In September of this year metal can shipments on this basis amounted to 431,161 short tons, as compared with 551,451 short tons shipped in August and 416,974 short tons in September, 1949.

ALKATERGE-C
oil-soluble wetting agent



Just 1/25 of 1% of Alkaterge-C—that's all it takes to reduce the interfacial tension between n-hexane and water to one dyne per centimeter. In mineral oil, 0.1% reduces the interfacial tension to approximately one to two dynes per centimeter. That's why Alkaterge-C is such a successful oil-soluble wetting and auxiliary emulsifying agent. It's a sort of chemical lever—makes it easy for the emulsifying agent to do its job. This striking effect on interfacial tension suggests many applications in connection with lubrication, extraction, and impregnating operations.

This non-volatile, amine-type compound reacts with acids to form salts and soaps which are themselves emulsifying and wetting agents. Salts of the mineral and lower aliphatic acids are water-soluble. With the higher fatty acids, Alkaterge-C forms oil-soluble soaps. These salts and soaps have been used as wetting agents and penetrants in metal cleaners and in the processing and impregnating of textile and paper products.

Alkaterge-C also has many uses based on its acid-accepting and surface-active properties. It is an effective anti-foam agent, especially when used in conjunction with mineral oil, and it is also an excellent pigment-grinding assistant in mineral oil vehicles.

We will gladly furnish you with a sample and additional data upon request on your company letterhead.

PROPERTIES (of commercial-grade material)

Molecular and Equivalent Weights	350 approx.
Coefficient of Cubical Expansion (70° to 79°C)	0.0008 per 1°C 0.0004 per 1°F
Distillation Range at 3 mm of Mercury	194°C to 210°C
Solidification Point	—56°C, approx.
Surface Tension of Saturated Aqueous Solution	Less than 40 dynes/cm
Interfacial Tension against Water of a 0.1% Solution in Mineral Oil	1 to 2 dynes/cm
Flash Point, Cleveland Open Cup	430°F
Solubility	
In Water	Less than 0.002% by weight
In Mineral and Vegetable Oil	Miscible
In Organic Solvents	Miscible with naphtha, benzene, kerosene, carbon tetrachloride, ethyl acetate, acetone, methanol, butanol, and most other organic solvents.

SPECIFICATIONS (tentative)

Oxazoline Content	70% by weight, minimum
Specific Gravity, 25°/25°C	0.925—0.935
Nitrogen (Kjeldahl)	3.90—4.10% by weight
Color, Gardner Scale	15 maximum
Appearance	Clear, free from suspended matter

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Davison Chemical Corp. Introduces Flatting Agent

Introduction of "Syloid 308," a flatting agent for use in lacquer manufacture, has been announced by the Davison Chemical Corporation, Baltimore, Md. The new product is said to give positive control over the degree of matte finish obtained without causing deterioration of film properties.

This characteristic was obtained, the company explained, through the use of synthetic silica. Particle size can be controlled and guaranteed from batch to batch, so that uniform results can be expected from the lacquers in which "Syloid 308" is used, the company noted, adding that no organics are used in the product as these have been found sometimes to cause deterioration of the film. The product is said to be economical because of its high flatting efficiency and because it quickly and readily mixes in the mills with other lacquer constituents.

Thurston & Braidich Names Nolte Company Gums Agent

Thurston & Braidich, New York, has announced the appointment of the Nolte Brokerage Company, 721 Clark avenue, St. Louis, Mo., as representative in that area for its line of gums, effective January 1. Nolte has represented the New York concern on vanilla beans in the St. Louis territory for many years. Beginning with 1951, it will also handle the Thurston & Braidich line of water-soluble gums for the pharmaceutical, printing, adhesive, food and allied industries along with its line of natural resins for the paint, varnish and lacquer field.

DuPont Issues Booklet

E. I. duPont de Nemours & Co., Wilmington, Del., has published a booklet entitled, "This Is DuPont—The Story of 'Duco' Finishes." Profusely illustrated and running to twenty pages, the publication provides a pictorial record of the history of the product and its varied applications on the American scene.

SPE Maps Program

—Continued from page 7

promotion department, Plaskon Division, Libbey-Owens-Ford Glass Company, Toledo, Ohio, and "Molding and Extrusion of Teflon," David D. James, product specialist in the field service laboratory of E. I. duPont de Nemours & Co., Arlington, N. J.

Machines to Be Discussed

The morning session on January 19, with James C. Growley, of Celanese Corporation of America, New York, and co-chairman of the conference committee, presiding, will start off with a panel discussion on "Injection Molding Machines of the Future." Islyn Thomas, president of Thomas Manufacturing Company, Newark, N. J., will serve as moderator.

Participating in the discussion will be the following:—J. F. Hronek, of the Plastics Division, Fellows Gear Shaper Company, Springfield, Vt.; David J. Sloane, vice-president of Lester Engineering Company, Cleveland, Ohio; Albert Spaak, chief engineer of De Mattia Machine & Tool Company, Clifton, N. J.; George W. Whitehead, sales manager of the plastic molding machinery division, Improved Paper Machinery Corporation, Nashua, N. H., and James S. Wilson, manager of plastics machinery sales, Watson-Stillman Company, Roselle, N. J. Charles T. Snyder, of Koppers Company, Pittsburgh, Pa., will conclude the morning session activities with a talk entitled "After-Treatment of Molded Polystyrene Parts."

The afternoon session on the nineteenth will be chaired by Arthur S. Jacobs, of Renwal Manufacturing Company, and program chairman of the conference. James L. Formo, supervisor of the plastics laboratory of Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., will discuss "Conditioning Phenolic Materials for Stability in Molding." Dr. Earle S. Ebers, sales manager of plastics and resins for Naugatuk chemical division, United States Rubber Company, Naugatuck, Conn., will deliver a paper entitled "Polyesters."

Moldings Symposium Scheduled

A symposium on "Distribution and Production Picture on Large Injection and Compression Moldings" has been scheduled as a final item on the program of the January 19 afternoon session. Four speakers from the plastics division, Monsanto Chemical Company, Springfield, Mass., will participate in the discussion. They are:—Edmond D. Kennedy, manager of advertising and sales promotion; Edwin L. Hobson, sales manager of thermoplastic molding materials; Frank J. Donohue, manager, technical service, thermosetting molding materials, and Sanford E. Glick, head of technical service, thermoplastic molding materials.

The annual banquet of the society will be held on the nineteenth at 7:15 p. m. in the grand ballroom. Guest speaker will be John P. Coe, vice-president of United States Rubber Company, New York, and general manager of the Naugatuck chemical and synthetic rubber divisions of the concern. His topic will be "Synergism."

Samuel Silberkraus, of Riverdale Laboratory and 1950 president of the New York section of SPE, will preside at the morning session on January 20. The following papers will be presented:—"Plastisol Molding," C. W. Patton, manager of coating and adhesive materials, thermoplastics department, Bakelite division, Union Carbide & Carbon Corporation, New York; "Designing Better Plastics Products, Carl W. Sundberg, Sundberg-Ferar, Detroit, Mich., and "Masking Problems in Manual and Automatic Spray Painting of Molded Plastic Parts." Presentation of prize-winning papers in the SPE 1950 prize paper contest will provide the concluding item on the conference program.

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SCI Selects Howard As '51 Perkin Medalist

The American section of the Society of Chemical Industry has selected Henry Howard, chairman of the executive committee of the manufacturing Chemists Association for twenty-two years, to receive the 1951 Perkin Medal. Presentation of the award to Mr. Howard will be made April 27 in New York, a departure from the usual custom of awarding the medal in early January each year.

Mr. Howard was for thirty-two years connected in various capacities with the Merrimac Chemical Company, now a part of the Monsanto Chemical Company, St. Louis, Mo. For ten years subsequent to that he was, successively, director of the new products department, director of research and development and consultant to the Grasselli Chemical Company, now a part of E. I. duPont de Nemours & Co., Wilmington, Del.

Eighty-nine United States patents have been issued to Mr. Howard, covering principally processes of manufacture of sulphuric and hydrochloric acids, alum and other heavy chemicals, and the specialized equipment required in chemical manufacturing plants. In addition to his work with MCA, Mr. Howard was a charter member and past president of the American Electrochemical Society (now The Electrochemical Society), a member and past president of the American Institute of Chemical Engineers and a member of the American Chemical Society.

DuPont Names Jones Nylon Sales Director

Appointment of Malcolm G. Jones as director of sales for the nylon division has been announced by E. I. duPont de Nemours & Co., Wilmington, Del. He succeeds Warren A. Beh, who has resigned. Mr. Jones, who has been director of production for the acetate division, is succeeded by A. B. Walmsley, jr., who has been assistant director of production for the rayon division. The changes were made as of December 1.

Mr. Jones has been with duPont since 1929, when he started to work at the Waynesboro, Va., rayon plant as a general spinning foreman. He advanced there through various operating and supervisory jobs to become manager of the plant in 1946. He was transferred to Wilmington in 1948 and appointed director of production for the acetate division.

Mr. Walmsley has been with the company since 1920 when he started as a clerk. He has been in rayon production work since 1922, first at the Buffalo, N. Y., and later at the Spruance plant, near Richmond, Va. He advanced through production and supervisory posts to become manager of the Spruance plant in 1945. He was promoted to assistant director of production of the rayon division in May of this year.

CCC Announces Tung Nut, Tung Oil Support Rules

The detailed regulations of the Commodity Credit Corporation covering price supports for tung nuts and tung oil of the current season were published in the *Federal Register* December 15. It previously has been announced that the tung nuts will be supported at $63 per ton on an oil content base of 17.5 percent, and the oil will be supported at 25.1 cents per pound.

The regulations state that purchase agreements covering tung nuts will be accepted by the county committee through January 31, 1951, and purchasing agreements and loan documents covering tung oil will be accepted through June 30, 1951. The loans will mature October 31, 1951, unless demand is made earlier by CCC.

Glidden Appoints Oakley

Glidden Company, Cleveland, Ohio, has appointed Richard H. Oakley general credit manager, succeeding H. W. Caton, who recently retired after thirty-one years of service with the concern. Mr. Oakley, when has been assistant general credit manager of Glidden since 1948, joined the concern in 1937. He has served as a traveling auditor for the company and as West Coast resident auditor.

Prufcoat Issues Primer Data

Prufcoat Laboratories, Inc., has published a bulletin entitled "Prufcoat Metal Reactive Primer P-10." The publication gives pertinent information relative to the application of the primer, and includes a series of questions and answers giving other technical data on the material. Copies of technical bulletin 012 are available upon written request to Prufcoat, 63 Main street, Cambridge, Mass.

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Diethylhexylamine

(Di-2-ethylhexylamine, Dioctylamine)

Chemical — Reactant in syntheses of organic chemicals, emulsifying agents, and the like.

Remover of halogen acid from halogenated organic compounds in syntheses of organic chemicals.

Dye—Reactant in syntheses of dyestuffs.

Pesticide—Suggested as reactant in syntheses of insecticidal toxicants.

Ethylhexylamine

(2-Ethylhexylamine, Mono-octylamine)

Chemical—Reactant in syntheses of rubber chemicals, detergents, oil additives, and other organic compounds.

Ethyl Palmitate

Plastics—Improver of polishing ease and water-resistance in (certain) plastic compositions.

Resin—High gloss imparter and lubricant for vinyl extrusion compounds.

N-1 :2-Dicarbo-N-ethyloxypropyl N-Octadecylsulphosuccinamate

Adhesives—Wetting agent (Brit. 587271) in various adhesive preparations.

Chemical—Wetting agent (Brit. 587271) in making emulsions of various chemicals, textile lubricants.

Cosmetic — Wetting agent (Brit. 587271) in creams, hand lotions, and the like.

Disinfectant — Wetting agent (Brit. 587271) in disinfecting and germicidal compositions.

Dry-Cleaning — Wetting agent (Brit. 587271) in dry-cleaning liquids.

Dye—Wetting agent (Brit. 587271).

Fats, Oils, and Waxes—Wetting agent (Brit. 587271) in boring, cutting, drilling, and wire-drawing oils, greasing compositions, lubricating compositions, sulphonated oils, wax preparations.

Firefighting — Wetting agent (Brit. 587271) in solutions for extinguishing brush fires.

Ink — Wetting agent (Brit. 587271) in lithographic, printing, and writing inks.

Leather—Wetting agent (Brit. 587271) in dressing, fat-liquoring, finishing, soaking, softening, tanning, and waterproofing compositions.

Metallurgical — Wetting agent (Brit. 587271) in metalplating and solvent degreasing processes, metal-cleaning baths, scouring agents for metals.

Miscellaneous—Modifier (Brit. 587271) of surface tension of liquids in various products and processes.

Wetting agent (Brit. 587271) in beerglass coasters, cleaning compositions, embalming fluids, ink removers, polishing compositions, water proofing compositions, soldering fluxes, wallpaper removers, dust-settling sprays, various processes involving aqueous solutions.

Paint, Varnish, and Lacquer — Wetting agent (Brit. 587271) in lacquers, paints, varnishes, and in pigment manufacturing.

Paper—Wetting agent (Brit. 587271) in beater operations, dye liquors, felt-conditioning, felt-cleaning agents, sizing, waterproofing, and waxing compositions.

Pesticide—Wetting agent (Brit. 587271) in insecticidal and fungicidal compositions, horticultural sprays.

Petroleum—Wetting agent (Brit. 587271) in acid treatment of oilwells cutting oils, and mineral oil, pitch, and tar compositions.

Photograhpic — Wetting agent (Brit. 587271) in blueprint and photographic processes.

Rubber—Wetting agent (Brit. 587271) in cements.

Soap—Wetting agent (Brit. 587271) in detergent compositions, textile soaps.

Textile—Wetting agent (Brit. 587271) in bleaching, boiling-off, bowking, carbonizing, degumming, dyeing, fulling, kierboiling, mercerizing, and soaking baths; coating, degreasing, oiling, scouring, sizing, spinning, washing, waterproofing, and waxing compositions; printing pastes.

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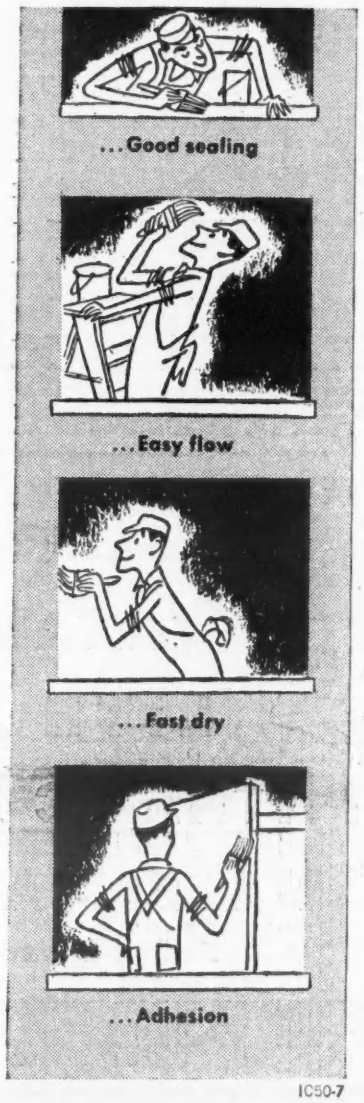

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to Purchasing Agents and Technologists in the ZnO-consuming industries — with our compliments

As the table of contents indicates, this attractive page book is intended to be a complete and informative manual on lead-free zinc oxide. In preparing the book, we have included only that material which we considered to be of maximum interest and value to technologists in the consuming industries.

The book has been divided into two parts. Section I concerns itself with the production of St. Joe commercially lead-free zinc oxides; it is a detailed and illustrated, step-by-step itinerary which begins underground in one of our zinc mines in upper New York State, and ends with the packing of the finished product in our Josephtown, Pennsylvania plant. Section II contains representative technical data on our various grades of black, red and green label zinc oxides, accompanied by photomicrographs and charts analyzing their particle size distribution characteristics. In addition, Section II includes a brief discussion of the role of zinc oxide in the major consuming industries.

Our reason for devoting twenty pages of this book to the production aspects of our zinc oxides will become apparent upon consideration of these facts: The trade term "Zinc Oxide" describes a series of materials that may be quite different from the material which is identified by the chemical symbol ZnO. Actually, ZnO is only a part of the materials thus described although its content is usually from 95.0 to 99.8% by weight. Other materials which may be a component part of commercial zinc oxides are, in some cases, beneficial and in others objectionable from the viewpoint of the consumer as well as the manufacturer.

Generally speaking, the characteristics possessed by the various zinc oxides now on the market were not developed by specifications set up by consumers, *but are the result of the various conditions surrounding the manufacture of the pigments.* A knowledge of zinc oxide production is thus an asset to consumers because different production methods result in pigments possessing different chemical or physical properties, and their applications have certain limitations which are important for consumers to recognize. This is the reason we have covered our production methods in considerable detail, and it is our belief that this will result not only in a better and wider utilization of commercially lead-free zinc oxides generally, but also in a greater appreciation of the high quality of St. Joe Zinc Oxides.

CONTENTS
- A Short History of the St. Joseph Lead Company
- The Production of St. Joe Zinc Oxides
- General Properties of Zinc Oxide
- Zinc Oxide in Rubber Compounds
- St. Joe Rubber Grade Zinc Oxides
- Zinc Oxide in Protective Coatings
- St. Joe Paint Grade Zinc Oxides
- Zinc Oxide in the Chemical, Pharmaceutical and Other Industries
- Zinc Oxide in the Ceramic Industries
- St. Joe Ceramic Grade Zinc Oxides

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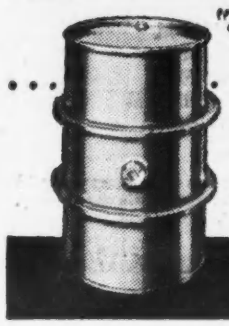

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HOUSTON—E. O. McCullough Co.
LOS ANGELES—California Pleasant Products Co.
LOUISVILLE—S. H. Boyer & Co.
—Geeds, Sprinhol & Miller, Inc.
MINNEAPOLIS—Morlen-Earl Co.
MONTREAL—S. B. S. H. Thompson & Co., Rep.
NEW ORLEANS—Russell Chemical Co.
NEW YORK—Barriques, Stewart & Berios, Inc.
PHILADELPHIA—Baker and Gaffney
PITTSBURGH—Bennett D. Griffin, Jr.
PORTLAND, ORE.—Western Chemicals, Inc.
SEATTLE—Van Waters & Rogers, Inc.

Bids Wanted

Boric acid, USP, 16,656 one - pound bottles, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 732, December 26.

Carbon tetrachloride, 13,000 gallons, Army Engineers Corps (Chicago 6) invitation ENG-889, December 21; fire extinguishing liquid, 2,028 quarts, Federal Supply Service (Dallas, Texas) invitation FW-11466, December 27.

Chemicals & drugs: formic acid, ACS, 864 ¼-pound bottles, hydriodic acid, USP, diluted, 480 ½-pound bottles, iodine, USP, 384 ¼-pound bottles, nitric acid, ACS, 864 one-pound bottles, potassium bicarbonate, USP, 480 one-pound bottles, sodium bicarbonate, USP, 960 one-pound bottles, potassium thiocyanate, reagent grade, 288 half-pound bottles, sodium hydroxide pellets, ACS, 1,536 quarter-pound bottles, sodium nitrite, USP, 360 one-pound bottles, Veterans Administration (Washington 25) invitation A-37, December 27; ferric nitrate, ACS, 288 quarter-pound bottles, formic acid, ACS, 1,344 quarter-pound bottles, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 732, December 26; permutit, 192 quarter-pound bottles, phenol, USP, 960 one-pound bottles, phenyl salicylate, NF, 192 quarter-pound bottles, podophyllin, NF, 192 one-ounce bottles, potassium acetate, USP, 240 one-pound bottles, same, invitation 738, December 28; benzalkonium chloride tincture, 960 four-ounce bottles, methyl salicylate, 202 one-pound bottles, invitation 747, December 22; mercuric oxide, 288 quarter-pound bottles, quinidine sulphate, 576 one-ounce bottles, sodium nitrite, 4,224 one-ounce bottles, sodium nitroferricyanide, 559 one-ounce bottles, invitation 744, December 26.

Citric acid, USP, 1,680 pounds, Veterans Administration (Washington 25) invitation A-37, December 27.

Compressed gases: liquid carbon dioxide, 16 tons, as required from January 1 through June 30, 1951, U. S. Air Force (Chanute Base, Ill.) invitation 39, December 21.

DDT, 100 percent, technical, 534,000 pounds, Navy Purchasing Office (New York 3) invitation 7866, December 20, formulations, various, Federal Supply Service (New York 13) invitation NY-W-25348, December 22.

Desiccant, activated, high absorption, 20,000 pounds, Navy Purchasing Office (New York 3) invitation 7911, January 2.

Detergent, dishwashing, 15,000 pounds, Federal Supply Service (Washington 25) invitation 95767 3, December 29.

Drier, paint, 3,500 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,984, January 5.

Drugs, in dosage form: tablets, ascorbic acid, digitalis, glyceryl trinitrate, capsules, hexavitamin, seconal sodium, Veterans Administration (Washington 25) invitation A-38, December 28; streptomycin, and allergy extract, The Panama Canal (Purchasing Officer, Washington 25) invitation C-7770, December 22; tablets, mercury bichloride, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 747, December 22; tablets, diethylstilbestrol, glyceryl trinitrate, hexavitamin, same, invitation 727, December 22.

Essential oils: cinnamon, 576 one-ounce bottles, and lavender, 3,840 one-ounce bottles, Veterans Administration (Washington 25) invitation A-39, January 2.

Ethyl alcohol, denatured, 500 gallons, Federal Supply Service (Washington 25) invitation 640, December 20.

Fluorescein, sea markers, 4,000, Navy Department (Aviation Supply Office, Philadelphia 11) invitation K-52,993, December 27.

Ink, black offset, 2,000 pounds, U. S. Government Printing Office (Washington 25) December 20; litho offset, 3,200 pounds, Navy Department (Aviation Supply Office, Philadelphia 11) invitation J-53,071, December 27, duplicating, climate-proof, 2,150 pounds, Federal Supply Service (Atlanta, Ga.) invitation AT-1060, December 22; stamp pad and writing, 3,048 bottles, Federal Supply Service (P.O.B. 5127, Cleveland, Ohio) invitation CL-1614, December 22.

Laundry supplies, including caustic soda, detergent, laundry sour, etc., as required, from January 1 through March 31, 1951, Federal Prison Industries (New York 14) invitation 7PI-149, December 21; sour, fluoride type, 10,000 pounds, Navy Purchasing Office (New York 3) invitation 7832, December 28.

Linseed oil, raw, 12,000 gallons, various deliveries, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,944, January 2; 1,350 gallons, Federal Supply Service (Dallas, Texas) invitation FW-11488, December 26.

Methanol, ACS, 1,176 pounds, Veterans Administration (Washington 25) invitation A-37, December 27.

Milk powder, 214,980 pounds, Quartermaster Depot (Pershing Road, Chicago) invitation 1318, December 29.

Naphthalene, flake, 22,000 pounds, Navy Purchasing Office (New York 3) invitation 7881, December 28.

Olive oil, 463 gallons, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 740, December 21.

Oxalic acid, 4,500 pounds, Navy Purchasing Office (New York 3) invitation 7837, December 28.

Paint & allied products: spraying lacquer, 600 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-53,005, December 27; enamel, 6,200 gallons, invitation B-52,915, December 22; paint, 400 gallons, invitation B-53,034, January 8; paint, 5,250 gallons, invitation B-52,979, December 29; enamel, 1,600 gallons, and paint, 200 gallons, Army Ordnance Department (Indiana Arsenal, Charleston, Ind.) invitation 4, January 2; enamel, 5,500 gallons, varnish, 408 gallons, paint, 20,680 gallons, Federal Supply Service (Dallas, Texas) invitation FW-11488, December 26.

Paint & varnish remover, 15,700 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-53027, January 3.

Petrolatum, white, 4,920 pounds, Armed Services Medical Procurement Agency (Brooklyn 1, N. Y.) invitation 740, December 21.

Pigments: paste, various, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,989, December 27; paste earth color, 8,016 half-pint cans, invitation B-52,996, January 5; dry, titanium calcium, approx. 504,000 pounds, invitation B-53,000, January 5; in oil, 5,760 half-pint containers, and 2,448 quart-containers, Federal Supply Service (Washington 25) invitation 5M-95525-R, December 21.

Phenyl betanaphthylamine, vacuum distilled, 1,000 pounds, National Bureau of Standards (Washington 25) invitation B-1-1178-51, December 21.

Platinum catalysts, various, 3,550 grams, U. S. Public Health Service (Bethesda, Md.) invitation E-136, December 27.

Polish, metal and wood, 15,000 pints, Navy Purchasing Office (New York) invitation 7851, December 27; metal, non-flammable, 193,000 pints, invitation 7852, December 27.

Potassium permanganate, 1,356 pounds, Federal Supply Service (P. O. Box 5127, Cleveland, Ohio) invitation CL-1562, December 21.

Salt tablets, impregnated, 20,000 cartons of 1000 tablets each, Marine Corps (Washington 25) invitation 688, December 27.

Sealing compound, dipcoating, 11,300 pounds, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-53,052, January 8.

Soap, toilet, powdered, 525 pounds, liquid, 588 gallons, laundry, powdered, 2,800 pounds, Federal Supply Service (Seattle 4) invitation 5-2117-1, December 20; borax compound, 4,500 pounds, Federal Supply Service (Washington 25) invitation 95769 3, December 28; various, unspecified quantities, same (P.O.B. 5127, Cleveland, Ohio) invitation CL-1600, December 22.

Soda, laundry, 9,520 pounds, Federal Supply Service (Seattle 4) invitation 5-2117-1, December 20; 1,235 pounds, Post Office Department (Washington 25) invitation 2242, December 20; caustic lye, 2,100 cans, Federal Supply Service (P.O.B. 5127, Cleveland, Ohio) invitation CL-1603, December 21; baking, 3,600 pounds, Veterans Administration (Washington 25) invitation S-140, December 21.

Soda ash, 21,700 pounds, Veterans Administration (Washington 25) invitation S-139, December 19.

Sodium bichromate, 72,000 pounds, Navy Purchasing Office (New York 3) invitation 7899, January 2.

Sodium bisulphate, 46,000 pounds, Navy Purchasing Office (New York 3) invitation 7895, December 29.

Sodium carbonate, 3,900 pounds, Navy Purchasing Office (New York 3) invitation 7864, December 27.

Sodium metaphosphate, 55,000 pounds, Navy Purchasing Office (New York 3) invitation 7907, January 2.

Sodium thiosulphate, 350,000 pounds, Federal Supply Service (Washington 25) invitation 95768 3, December 29.

Spices: black pepper, 6,000 pounds, and ground cloves, 600 pounds, Quartermaster Procurement Agency (New York 3) invitation 988, January 8; whole bay leaves, 9,060 one- or two-ounce cans, invitation 961, January 4; allspice, 1,932 pounds, Veterans Administration (Washington 25) invitation S-143, December 27.

Stain, wiping, in oil, 2,500 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,943, January 2.

Talcum powder, soapstone, 28,000 pounds, Navy Purchasing Office (New York 3) invitation 7890, December 29.

Tetrasodium pyrophosphate, 55,000 pounds, Navy Purchasing Office (New York 3) invitation 7909, January 2.

Thinner, enamel, 3,000 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-53,041, December 21; pyroxylin dope and lacquer, 5,800 gallons, invitation B-53,095, January 2; paint, volatile mineral spirits, 9625 gallons, Federal Supply Service (Washington 25) invitation 5M-95608-R, December 19.

Trisodium phosphate, 600 eleven-ounce containers, and 70,000 pounds, Federal Supply Service (Atlanta, Ga) invitation AT-1106, December 22; 60,375 pounds, Post Office Department (Washington 25) invitation 2241, December 20.

Turpentine, 1,850 gallons, Federal Supply Service (Dallas, Texas) invitation FW-11488, December 26; wood, steam distilled, 24,344 gallons, various deliveries, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-52,999, December 29.

Wax, water emulsion, 5,400 gallons, Federal Supply Service (Atlanta, Ga.) invitation AT-1014, December 22; 17,000 gallons, same (Washington 25) invitation 5G-95799-R, December; 2,250 gallons, same (Dallas, Texas) invitation FW-11465, December 21.

Wood preservative, water repellent, 2,000 gallons, Navy Department (Aviation Supply Office, Philadelphia 11) invitation B-53,032, January 8.

Zinc phosphide, rodenticide, 2,000 pounds, Navy Purchasing Office (New York 3) invitation 7789, December 21.

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Oils, Fats and Waxes

Upward trend of the fats and oils market continued last week. Vegetable oils were firmer reflecting the advance of cottonseed oil. Animal oils were advanced with the higher cost of tallow and greases. Price index advanced 8.4 points.

Business was spotty as is usual at this season, but the market reflected unfavorable Korean war news and the expected announcement of price controls.

Crude cottonseed oil offerings were scarce and light sales took place at a fractional advance. This also stiffened corn and peanut oils. Soybean oil was higher with advance in beans. Coconut oil and copra were easier and slightly lower.

Further advances in tallow and greases caused the lifting of price schedules for red, grease and tallow oils, stearic acid and tallow fatty acid. Cottonseed and soybean fatty acids were raised 1½ cents per pound, and castor fatty acid 4 cents while coconut fatty acid was unchanged. Oleo oil and oleo stearine were in light supply and lifted 1 cent per pound.

Higher cost of flaxseed resulted in an advance of 1 cent per pound for linseed oil. This served to strengthen other drying oils. Dehydrated castor oil was boosted 4½ cents per pound due to scarcity and higher replacement cost of castor beans. The placing of an export tax by the Chinese government of 10 percent on shipments of tung oil, effective December 14, raised the cost of shipment about 2½ cents per pound, and resulted in most sellers withdrawing from the market.

Vegetable waxes were tighter and prices of spot stocks of carnauba wax were increased 2 to 4 cents per pound and ouricury 1 cent. Beeswax was unchanged but steady at the recent advance.

Cottonseed Oil

Bleachable cottonseed oil futures were irregular and price fluctuations were narrow last week. Market remained steady, reflecting the firmness in crude. Trading was active and mixed. Switching was heavier than for some time past. December delivery developed an easier tone late Friday and dropped 100 points. Tenders on December contracts up to Friday were only eleven contracts, and due to the heavy open interest, liberal tenders were expected. Offerings of crude were light and prices were fractionally higher. Lard was stronger, reflecting improved export demand from England. Competing vegetable oils were firmer.

Crude oil was stronger at 21½c. bid tankcars, f.o.b. Southeast and Valley and 21¼c. bid Texas mills.

Sales and prices of refined bleachable prime summer yellow cottonseed oil in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended December 15, follow:—

	Sales	Cents per pound High	Low	Close
December	339	24.52	23.25	Expired
March	859	23.55	22.55	23.55S
May	1.027	23.25	22.47	23.25S
July	546	23.08	22.37	23.05S
September	66	22.30	21.35	22.27S
October	9	20.50	19.35	20.30@20.80

Total sales, 2,846 tankcars, including switches.

Memphis.—Crude cottonseed oil quoted at 21¼c. and crude soybean oil, 19c. per pound, tankcars, f.o.b. mills, prompt shipment. Trading light. Cottonseed meal, 41 percent, quoted at $83 per ton, sacked, Memphis. Cottonseed cake, $75 per ton, bulk, Valley points, December-January. Soybean meal, $67.50 per ton, sacked, f.o.b., southern mills. Cottonseed hulls, $22 per ton, bulk, f.o.b. mills.

Linseed Oil

Increased cost of flaxseed was reflected in linseed oil and prices were boosted 1c. per pound. Raw oil was lifted to 18.70c. per pound, tankcars, zone 3, December delivery, and to 18.50c. January-June. Business was inactive at the higher levels, while a good volume of business was booked for future delivery before the advance became effective. Other drying oils were firmer. Dehydrated castor oil was boosted 4½c. per pound, and tung, 2½c.

Minneapolis.—The vacuum of inflation enveloped raw linseed oil prices again last week and pulled them sharply higher. Prices were raised to 17.9c. per pound, tankcars, December-August delivery. Bookings were light as bulk of the trade continued to hold off until the price control situation is clarified. Shipping specifications slackened a bit and shipments of oil were about one-fifth smaller than in the preceding week.

Shipments of linseed oil, in pounds, were as follows:—

	1950-51	1949-50
Past week	7,680,000	6,820,000
Since Sept. 1	143,120,000	134,020,000

Market Trends

Prices Advanced

Carnauba wax, No. 3, crude, 2c. per lb.
No. 1, yellow, 4c. per lb.
No. 2, yellow, 4c. per lb.
Castor, fatty acid, 4c. per lb.
oil, No. 3, 4c. per lb.
dehydrated, 4½c. per lb.
Corn oil, ¼c. per lb.
Cottonseed, fatty acid, 1½c. per lb.
oil, ½c. per lb.
Greases, ½c. per lb.
oils, ¼c. to ½c. per lb.
Linseed oil, 1c. per lb.
Oleo oil, 1c. per lb.
stearine, 1c. per lb.
Ouricury wax, 1c. per lb.
Peanut oil, ¼c. per lb.
Red oil, 2c. per lb.
Soybean fatty acid, 1½c. per lb.
Stearic acid, 2c. per lb.
Tallow, ½c. per lb.
fatty acid, 1¼c. per lb.
oil, 1c. per lb.
Tung oil, 2½c. per lb.

Prices Reduced

Coconut oil, ¼c. per lb.
Copra, $2.50 per ton.

Comparative Price Indexes

(100=August 1, 1914)

Last week	Prev. week	Last month	Dec. 30, 1949	Dec. 16, 1949
191.7	183.3	177.2	111.3	109.8

(For Current Prices see Page 9)

Flaxseed—Market declined after heavy trading took place at $4 per bushel.

Minneapolis. — Higher bids on flaxseed brought out a better amount of seed in the local market last week—but yet—offerings were nothing sensational. Crushers bought better than 50 "spot" cars and booked well over 80 "to-arrive" cars at prices ranging from $3.68 early in the week to as high as $4.05 a bushel near the week's end. Bulk of the sales were in the vicinity of the $4 mark. In addition to carlot bookings, bulk sales via truck amounted to around 10,000 bushels. Prices eased later to $3.93, spot and $3.90-$3.95 to arrive.

Receipts and shipments of flaxseed, in bushels, were as follows:—

Bushels—	Receipts 1950-51	Receipts 1949-50	Shipments 1950-51	Shipments 1949-50
Past week	397,800	166,600	37,400	40,800
Since Sept. 1	18,366,400	9,865,100	2,202,500	1,104,700

Other Vegetable Oils

Castor Dehydrated—Prices were advanced 4c. to 4½c., as to grade. Market was stronger, due to higher cost and scarcity of castor beans offered for shipment from primary sources. Bodied dehydrated was lifted 4½c. to 33¼c. per pound, tankcars, and unbodied to 32¼c. No. 3, technical, was increased 4c. to 29¾c. per pound, tankcars.

Coconut—Crude oil was easier and offered at 16¾c. per pound, tankcars, f.o.b. Pacific coast, December shipment, and 16½c. January. Sales were reported at 16¼c., February shipment.

Copra—Market was quiet and prices more or less nominal at $212.50 per short ton, c.i.f. Pacific coast.

Corn—Trading was light. Crude oil was sold at 21¾c. per pound, tankcars, f.o.b. mills. Refined oil was nominal at 25¼c. per pound, tankcars, New York delivery.

Olive—Edible continued strong. Offerings were light and sellers maintained $2.90 to $3 per gallon, drums, duty paid, as to quantity. Consuming inquiry was fairly active, with bids 5c. less than asking prices. Some holders would not consider less than $3. Primary markets were firm. Olive foots were maintained at 16c. per pound, tankcars, and 17½c. to 17¾c. per pound, drums, as to quantity.

Greece's 1950-51 olive oil production is placed at approximately 60,000 short tons, according to an official preliminary estimate reported by American Embassy, Athens. This represents the second lowest volume in 20 years (1948 production was 50,000 tons) and less than one-fourth last season's outturn, recently revised to 247,600 tons the largest production in Greece going back to 1921. Exports during November 1, 1949-October 31, 1950 amounted to only 165 tons against 7,000 a year ago. The sharp drop was due mainly to internal prices which priced Greek olive oil out of the world market. It seems unlikely that there will be any substantial increase in exports as long as this price situation continues. In the past seed oil has been imported to depress olive oil prices, but during 1949-50 only 130 tons of seed and vegetable oil were imported even though retail olive oil prices were higher than usual. The residue from the 1949-50 olive oil pressing amounted to an estimated 330,000 tons of cake, which yielded about 28,000 tons of sulphur oil.

Peanut—Crude oil was firmer, up ¼c. Sales were reported at 21¼c. per pound, tankcars, f.o.b. mills. Trading was limited. The government offered peanuts to produce 166 tankcars of oil last week. Refined oil was firmer at 25¼c. per pound,

For Late Market Developments, See Page 4

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tankcars, New York delivery. ECA approved the purchase of $1,175,000 worth of peanut oil for shipment to Formosa. Contracts will be closed by March 31 and delivery at terminals, May 31, 1951.

Soybean—Market remained on a firm basis at practically unchanged prices for the week. Export demand was active. Crude oil was sold at 19½c. per pound, tankcars, f.o.b. mills, December shipment; 18½c. January; February, 17¾c., and April-September at 17c. Refined edible oil was firm at 22.40c. per pound, tankcars, New York delivery.

Sales and prices of prime crude soybean oil on the N Y. Produce Exchange in tankcars (60,000 pounds) for the week ended December 15, follow:—

	Sales	Cents per pound High	Low	Close
December	45	19.21	18.90	Expired
January	22	18.90	18.25	18.90S
March	162	17.92	16.75	17.91S
May	399	17.50	16.54	17.47S
July	308	17.42	16.30	17.36@17.45
September	50	17.35	15.95	17.32@17.40
October	2	15.90	15.75	16.00@16.50

Total sales, 988 tankcars and switches.

Tall—This market was firmer and some producers raised quotations ½c. per pound, while others maintained unchanged prices. Crude oil ranged from 2½c. to 3c. per pound, tankcars, f.o.b. works. Refined grades ranged from 5c. to 6¼c. per pound, tankcars, works, as to seller and 6¼c. to 7½c. per pound, drums, carlots.

Tung—Cable advices that the Chinese government had placed export duty of 10 percent on shipments of tung oil, effective December 14, resulted in the withdrawal of offers by most sellers and strengthened the market. Prices were indefinite and nominal at 28c. to 28½c. per pound, tankcars, New York basis. Market was firm before this news was received with sales reported at 26c., tankcars. Imports at New York last week amounted to 1,222 tons.

Fats and Greases

Greases—Market continued firm under a good inquiry from domestic consumers and scarcity of offerings. Prices were advanced ½c. to ¾c. per pound. Trading was light and spotty, with small buyers purchasing at premiums of at least ¼c. per pound. Choice white was scarce and nominal at 15½c. per pound, tankcars, delivered; yellow, 14¼c. and house, 13¾c.

Lard—Prices were irregular but closed fractionally higher. Market was firm with grains and vegetable oils. Cash lard was quoted at 17¼c. per pound, tierces, Chicago.

Tallow—Offerings continued scarce and moderate trading took place at an increase of ½c. per pound. Soapers purchased fancy at 15¾c. per pound, tankcars, delivered, while small buyers paid about ½c. more. Extra was higher at 15½c. and special, 15c. tankcars delivered.

Animal Oils

Prices of most animal oils were higher due to the increased cost of tallow and greases. Grease oils were increased for all grades. No. 1 was lifted to 20c. to 20½c. per pound, drums, as to quantity; extra winter, 22¾c. to 23½c. and prime burning, 24¾c. to 25¼c., same basis. Oleo oil was raised to 20c. to 21c. per pound, depending upon seller and quantity. Acidless tallow oil also was higher at 20c. to 21c. per pound, drums, as to quantity. Oleo stearin was nominal at 19c. per pound, barrels.

Fish Oils

Refined—Market was firm at the recent advance, reflecting the scarcity of crude oil. Light pressed was maintained at 17c. per pound, and alkali refined at 18c. per pound, tankcars, New York. Crude oil was firm at the recent advance. Sardine and menhaden were last sold at 14½c. per pound, tankcars, f.o.b. works, Pacific and Atlantic coasts, respectively.

Production of the following fish oils for the ten months ending October, 1950, with comparisons for the same period last year, were reported by Department of the Interior. Groundfish oil 269,910 gallons, compared with 470,250 gallons; herring oil, Alaska, 2,989,925 gallons against 600,900 gallons, and Maine, 264,060 gallons compared with 114,780 gallons; menhaden, 8,835,260 gallons against 7,833,580 gallons, and sardine oil, 5,051,925 gallons compared with 4,400,660 gallons.

Los Angeles.—Last sales of crude sardine oil took place at 14½c. per pound, f.o.b. San Pedro, with additional buying interest at this level. Offers were advanced to 15c. per pound. With fishing operations expected to be suspended until after the first of the year, due to the holiday season and light-of-the-moon period later this month, the 15c. price will undoubtedly stand according to the trade. Pilchard landings con-

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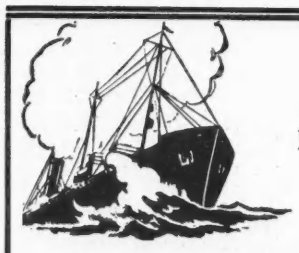

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RUtherford 2-7985

tinued at a good rate, with 215,393 tons landed in the Southern California area through December 11 compared to 93,939 tons for the same period last season. Tuna oil is quoted nominally at 10c.-10½c. per pound, f.o.b. San Pedro, with offerings scarce for possibly another sixty days.

Fatty Acids

Higher prices were announced for both animal and vegetable fatty acids owing to increased cost of basic oils and fats. Red oil was raised 2c. per pound. Single distilled was quoted at 23c. and double, 25½c. per pound, tankcars. Stearic also was 2c. higher. Single pressed was quoted at 22½c. per pound, carlots; double, 23c. and triple, 25¼c., same basis. Cottonseed, soybean and tallow fatty acids were lifted 1½c per pound, while coconut was unchanged. Castor oil fatty acid also was advanced 4c. per pound and linseed fatty acid, 1c. per pound.

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Snowflake Brand
White Sunbleached
U.S.P. Beeswax
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U.S.P. YELLOW REFINED
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THE F. B. KOSTER WAX REFINING CO.
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Cake and Meal

Cottonseed Cake and Meal—Forty-one percent loose slab cake was offered in limited quantities at $72.50 per ton December, $71.50 January, $71 February, and $70 March, basis Mississippi Valley points. Forty-one percent sacked meal was quoted at $84 per ton basis Memphis, $81 basis Georgia, and $83 basis South Carolina mills, with 36 percent $5 to $6 per ton less, for December shipment. Supplies of meal definitely limited and demand continued to absorb offerings.

Linseed Meal—Trading fairly active at unchanged quotations. Market steady.

Minneapolis.—Crushers were quoting linseed meal prices 50c. to $1 a ton higher than the preceding week, but actual trades were being made at the old levels of $58.50 to $59.50 a ton on expeller meal and $57.50 to $58.50 for extracted meal. There was some improvement in forward demand. Shipping directions were the heaviest in six weeks.

Shipments of linseed meal, in pounds, were as follows:—

	1950-51	1949-50
Past week	23,460,000	21,720,000
Since Sept. 1	302,200,000	289,770,000

Soybean Meal—Market in the Southeast was firm. Considerable trading took place in cake for export. Forty-one percent sacked meal was quoted at $65 per ton basis Mississippi Valley points, $70 Alabama, $72 Georgia and South Carolina, and $74 North Carolina mills, December and January shipment. Forty-four percent bulk Meal was offered at $60.50 to $61.50 basis Decatur, December-January-February-March shipment.

Waxes

Carnauba—Trend of prices continued upward and all grades were advanced. No. 3 crude was lifted 2c. per, and No. 1 yellow 4c. per pound for spot delivery. Trading was fairly active and spotty. Stocks on spot were limited. Consuming inquiry improved and moderate volume of business was reported for early next year delivery. Brazilian market was strong, with offers for shipment still scarce. No. 3 crude was held at $1 to $1.03 per pound and refined at $1.05 to $1.07; yellow No. 1, ranged from $1.10 to $1.12 with sales at the outside figure. No. 2 was quoted at $1.08 to $1.10 per pound, as to quantity.

Better Chemicals for the Process Industries SINCE 1815
AHCO PRODUCTS
Plants: Charlotte, N. C., Cincinnati, Ohio, Dighton, Mass.

Product	Use	Description
RED OILS	Soaps, Lubricants, Softeners. Cutting, Flotation & Quenching Oils. Pigment dispersion. Textile Oils.	Single or double pressed. 98% saponifiable matter guaranteed. Low titre.
AHCOLEIN 810	Wherever highest quality red oil is required. Soaps, creams, emulsions, textiles, etc.	Distilled red oil. Almost colorless. F.F.A. 98-100%. Meets or exceeds U.S.P. specifications.
FATTY ACID ESTERS	Plasticizers and lubricants.	Low volatility and acidity; mild odor, improved heat stability.
TRIPLE PRESSED STEARIC ACID	Ester manufacturing, Emulsifying agent for Greases, Rubber, Paints, Pharmaceuticals, etc.	Saponified; in spray or slab form. Low iodine value.
METALLIC STEARATES	Petroleum Greases, Inks, Paints, Varnish, Lacquers, Rubber, Plastics, etc.	Aluminum, Zinc, Calcium, Magnesium and Barium.
GLYCERINE	Textiles, Rubber, Glues, Paper, etc.	88% saponification crude.

For samples and research bulletins, contact your nearest AHCO office
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"Consolidated" EXTENDS

CENTRIFUGALS

3—42" STAINLESS STEEL CENTRIFUGALS, American T. & M. Co., each with S/S basket, curb, casing and unloader and 40 HP two-speed 3/60/440 V. motor. Suspended bottom discharge type. Each machine has separate steel supporting A frame.

1—40" BIRD Suspended Type Centrifugal Steel basket bottom discharge, with A-frame, Vertical 1,200 RPM 20/5 HP Louis Allis 3/60/440-220 motor and ROWAN Control.

4—COAL PULVERIZERS, No. 412 Raymond Bowl Mills, rated capacity each 7,800 lbs. per hour, with 100 HP 3/60/440V motors. New 1943.

1—4' x 8' UNUSED Kennedy-Van Saun Ball Mill Coal Pulverizer, iron lined.

2—Ball & Jewell ROTARY CUTTERS, Size #1½, with 30 HP Motors, 1 with stainless steel rotor and knives.

MIXERS

1—#1 BANBURY MIXER, Chrome Plated Rotors, Drive, 40 H.P. Motor.
1—BAKER PERKINS 100 gal. Stainless Steel VACUUM MIXER.
10—BAKER PERKINS MIXERS, Jacketed and Unjacketed, 5 gal., 9 gal., 20, 50, 100, 150, 200 gallon.
1—J. H. Day Steam Jacketed ALUMINUM Horiz. 1000# Dry Powder MIXER.
9—DRY POWDER MIXERS, horizontal ribbon and rotary drum, 2,000# to 100#.

FILTERS

4—SWEETLAND Filters — No. 12 with 36 steel, bronze or Monel leaves; also #5.
15—Presses, cast iron, 12" x 12" up to 42" x 42", open and closed delivery.
4—RUBBER covered presses, 24" x 24" and 36" x 36".
1—ALUMINUM Sperry, 30" x 30", Plate and Frame, 45 chambers.
2—3' x 1' and 6' x 4' Oliver, top feed.
1—8' x 15' OLIVER PRECOAT Vac. continuous Filter.
1—8' x 12' Oliver Acidproof—lead fitted.
3—8' x 10' Oliver steel, wood staves.
2—8' x 4' Dorrco Continuous Vac. Filters.
1—4' x 5' Eimco Vac. Filter, all steel.
2—8' x 12' Oliver, all steel.
2—11'6" x 18' Oliver, all steel.

DRYERS

3—Rotary Vacuum Dryers: 5' x 33' and 5' x 25' Devine; 4 x 20' #59-C Stokes; 3 x 15' #59-B Stokes; each complete with auxiliary equipment.
4—Vacuum Shelf Dryers: Devine 10—40" x 43" shelves; Devine, 17—40 x 43" shelves; Devine, 18—59" x 78" shelves.
1—Double Shell Rotary Dryer, outer shell 10' x 42' long, inner shell 5'6" x 57' long, all lined, with auxiliaries.
1—Buffalo Vacuum Drum Dryer, double rolls, each 42" dia. x 120", complete. Also 5' x 10'6" Devine with single bronze drum.
9—Double Drum Atmospheric Dryers: 28 x 60", 36 x 81" Black & Clawson; 32 x 72", 32 x 90", 32 x 100", 42 x 90", 42 x 100" Buffalo.
8—Single Drum Atmospheric Dryers: Two UNUSED 48" x 48" Goslin-Birmingham; 48 x 40, 5 x 12' Buffalo; 4 x 5' chrome clad; 4 x 9' Albright-Nell.
1—6' x 4' Flaker, chrome-plated, m.d.
2—6' x 27' Davenport Rotary Steam Tube Dryers, vari-speed reducer and motor.
12—Rotary Dryers: 3'6" x 24' Aluminum; 4' x 30' Monel; 5'4"x40' Stainless Steel; 2' x 15', 5' x 24', 5' x 30', 5' x 50', 6' x 60', 8' x 60', 9' x 85', 11'6" x 120'. Also ROTARY KILNS up to 9'6" x 250'.

Above only a partial Listing

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REFINING — PACKAGING — CONVEYING — POWER EQUIPMENT

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2—8' dia. copper vacuum pans, 1780 sq. ft.
2—11' calandria pans, 1300 sq. ft. each.
2—12', 14' dia. copper vacuum pans, 690 & 1290 sq. ft.
16—Crystallizers, 8' x 18', 6'6" x 30'.
8—Hersey Driers, 6' x 26', 6' x 24'.
54—40" centrifugals, batteries of 4 & 6.
10—54" centrifugals.
16—#12 Sweetland Filters.
7—Tyler Hummer Screens, 3' x 5'.
5—Schutz-O'Neil #3 Sugar Pulverizers.
1—Stedman Sugar Pulverizer.
2—St. Regis #5 & 10 lb. convertible paper pocket Filling, Folding, Sewing Units.
3—Pneumatic Scale Packaging Lines for 1, 2 or 5 lb. cartons.
6—Hoopner Duplex Scales, 100 lb.
2—Hoopner 5, 10 & 25 lb. Pocket, Baling and Sewing Machines.
50—Belt, Bucket and Slat Conveyors.
30—Ribbon or Screw Conveyors, 12" to 30".
62—Centrifugal Pumps, 1" to 22".

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1—Raymond 3 roll high side Mill.
2—Haveg 4,000 gallon storage tanks.
1—Tolhurst 32" suspended centrifugal stainless steel perforated basket.
1—Glascote 150 gallon glass lined reactor.
3—Pfaudler 200 gallon glass lined and stainless steel jacketed agitated tanks.
1—6' x 50' Rotary Dryer
4—Ross Eng. 2-truck Atmospheric Steam-Heated Dryers, 500 sq. ft. each.
3—6' x 40' Stainless Steel Rotary Dryers.
2—Bird Centrifuges, 36" x 50", rubber-covered.
1—Tolhurst 26" Suspended Centrifugal, steel.
1—AT&M 48" Suspended Centrifugal, stainless steel solid basket.
5—Atmospheric Double Drum Dryers, 32" x 52", 32" x 72", 36" x 84", 32" x 100", 42" x 120".
1—#10 Sweetland Filter, 53 stainless leaves.
6—Sweetland Filters, #12, 9, 2.
2—Sweetland Filters, #2 solid stainless.
8—Oliver Rotary Vac. Filters, 11'6" x 18', 8' x 12', 8' x 8', 6' x 8', 3' x 4', 3' x 2'.
1—Swenson 4' x 5' Rotary Vac. Filter.
2—Rotary Vacuum Dryers, 30" x 8', 3' x 15'.
9—Patterson, Abbe Pebble Mills, 6' x 8', 5' x 6', 4' x 5', 3' x 4', 3' x 3'6", 2' x 3'.
3—Mikro Pulverizers, #4TH, 2DH, 1SH.
7—Rotex Sifters, 40" x 56", 40" x 84", 40" x 120".
3—Tyler Hummer Screens, 4' x 5', 3' x 5'.
4—Baker Perkins steam jacketed Double Arm Mixers, 100, 20, 9, 2 gal.
1—Sperry all aluminum 30" x 30" P&F Filter Press, 23 chambers, 2" cake.
8—Shriver, Sperry Filter Presses, 12" to 42".
3—Stainless Steel Tanks, 500, 750, 3500 gal.
1—Stokes Vac. Shelf Dryer, 16—40" x 42" shelves.
25—Powder Mixers, 100 to 5000#.
20—Stainless Steel Kettles, 20 to 500 gal.
21—Pfaudler glass-lined Tanks, 8000 gal.
4—Nash Hytor Pumps, #L5, 3, 2, H7.
70—Centrifugal Pumps, 1" to 10".

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BRILL EQUIPMENT COMPANY
2401 3rd Avenue New York 51, N. Y.

EQUIPMENT

for CHEMICAL AND ALLIED INDUSTRIES

3—Baker Perkins Stainless Steel Jacketed Sigma Blade Mixers, 100 gals. cap.

1—Shriver Filter Press, 42" x 42", 46 Chambers, side-feed, open-delivery, washing type with hydraulic closing device.

1—Shriver Filter Press, 36" x 36", closed-delivery, side-feed, 25 chambers.

1—Shriver Rubber-Lined Filter Press, 36" x 36", 36 Chambers, closed-delivery, 4 eyed, corner feed with 5 ton SECO closing device.

1—Shriver Jacketed Plate & Frame, Filter Press, 36" x 36", 48 Chambers.

2—Shriver Filter Press Skeletons, 56".

3—Buflovak Flakers, 5' x 12'.

2—Buflovak Vacuum Drum Dryers, 24" x 20".

2—Buflovak Vacuum Drum Dryers, 5' 10" x 10'.

1—Vallez Filter, #3.

1—Bird Continuous Solid Bowl Centrifugal Filter, 24" x 38", with 25 HP Motor.

1—Stainless Steel Jacketed Kettle, 500 gals. cap.

14—Pfaudler Glass-Lined Jacketed Kettles, 330 gals. cap.

1—Ruggles Cole Direct Fired Kiln, 7½' x 60'.

1—Bartlett & Snow Direct Fired Kiln, 8½' x 50'.

1—Banbury Mixer #1 with 50 HP Motor.

4—Baker Perkins Jacketed Vacuum Type Double Arm Mixers with Motors & Drives, 100 gals. cap.

5—Simpson #0 Intensive Mixers "Unused".

2—Sharples Super Pressurite Centrifuges, Stainless Steel Bowl, Model #16Y.

2—Orville Simpson #41, Rotex Screens.

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To Increase American Production F-A-S-T— Utilize Good Used Equipment Now Available!

JUST PURCHASED: 8 Heavy Duty Hi-Pressure Steel Autoclaves

2500 Gal. 6' 6" x 9'-Jacketed—200 lbs. Pressure—Internal and Jacket; Agitated

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Vertical Steel Digester, ASME 100 PSI; 69" x 16'.
Horizontal Pressure Tunnel, 7' x 7' x 50' complete.
Stainless Lined Pressure Vessel; 300 PSI; 50' x 18'.
Vacuum Autoclave 5' x 14'; Bolted head; 150 PSI.
Patterson Jacketed Autoclave; 300 PSI; 36" x 42".

COLLOID MILLS
Eppenbach, Premier, Charlotte, Marco, Cherry-Burrell, Manton Gaulin, Case, Colloid Mills, Homogenizers, Viscolizers, mostly Stainless contact parts equipped with motors up to 75 H.P.

DRYERS
J. P. Devine Rotary Vacuum Dryer, 4½' x 18' complete.
Pfaudler Glass Lined Rotary Dryer 24" x 120".
Heil Mobile Dehydrator or Rotary Multipass oil heated Dryer 7' x 16'.
Louisville Dryers; 3' x 20', 6' x 30'; gas and steam tube.
Buffalo Double Drum Dryers; 24" x 24", to 42" x 120".
Buffalo Chrome Plated Vac. Drum Dryer 5' x 12'.
Struthers Wells Stainless Steel Drum Dryer 5' x 10'.
Procter & Schwartz Continuous Conveyor Type Single Pass Dryer with Stainless Belt; 64' long, 11' wide; 9 sections.
Procter & Schwartz Continuous Apron Dryer; 7' 6" x 14' 6" x 42' 6".
Koch Electric Ovens; 42" x 69" x 66"; double compartment.
3 Link Belt Rotolouvre Dryers; varying sizes.
Bowen Stainless Spray Dryers; Lab. size and 18' x 52'.
3 Continuous multipass Crystallizing Dryers with paddles 6" and 10" inside dia. 10' lengths.

EVAPORATORS, STILLS REACTORS, VACUUM PANS
Dover Steel 800 Gal. Evaporating Still 4' x 11'.
Buffalo Steel Evaporator 12' x 40' with barometric condenser.
2 Manistee Triple Effect Cast Iron 13' Evaporators.
Zahm & Nagel Continuous Evaporator; 2,500 lbs. per hour.
Alberger Karbate Hydrochloric Acid Recovery System.
Pfaudler 2,500 Gal. Glass Lined, Vac. Pan with Stainless Steel Coils.
Resin Kettle 250 Gal. Stainless Jacketed agitated.
Lancaster 1,800 Gal. Jacketed Stainless Digester.
Dowtherm Jacketed agitated Kettle; 1,000 Gal. 57" x 7'.
Stainless Jacketed Pressure Vessel; 4' x 5'.
1,200 Gal. Stainless Reactor; 60"x93".
Two Stainless Horizontal Storage Tanks; 8' x 18' and oval 6' x 5' x 12' 8".
Zaremba Triple Effect Copper Evaporator; 220 sq. ft. each effect.
Majonnier Copper Calandria type Vacuum Pan 6' x 16'.
Alberger Karbate Hydrochloric Acid Recovery System.

EXTRACTORS and CENTRIFUGALS
Tolhurst, Fletcher, American, Bird, Schaum & Uhlinger, Centrifugal.
Extractors in Stainless, Steel, Copper, etc., sizes up to 60" Baskets.
8 A.T. & M. Stainless Steel 60" Centrifugal Extractors with Vacuum and Pressure Tight covers; motorized.
Centrifugal Clarifiers and Separators by Sharples, DeLaval, latest types in Steel and other Non Corrosive metals.

FILTER PRESSES and FILTERS
Shriver and Sperry Cast Iron Plate & Frame Filter Presses, 12", 24", 30" and 36" open and closed delivery.
Sperry 36" Aluminum P.&F. Filter Presses closed delivery, washing.
Sweetland Leaf type pressure Filters Nos. 2, 5, 7 and 12.
Oliver United Dorrco type Rotary Vacuum Filter 6' x 3' with nickel contact parts.
2 Feinc String type Rotary Vacuum Filters; 8' 6" x 8' and 10' 6" x 16'.
Eimco Stainless Steel Drum Filter 4' x 6'.
Vallez No. 49 Rotary Pressure Filter; 31 leaves; 558 sq. ft. area
Large Stock of Alsop, Ertel, Bowser and Industrial Filters of all types.

KETTLES
30 Brand New Stainless Steel Jacketed Kettles in STOCK; jacketed for 100# steam; 50 gal. to 500 gal.
4 Good used Stainless Steel Kettles, 50 gal., 100 gal.
22 Copper Steam Jacketed Kettles good used condition up to 300 Gal.
14 Steel Jacketed Kettles also cast iron up to 1,800 gal.

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Large stock of Automatic and Semi Automatic Labelers of all standard makes for every size and shape container; send specimen label and container.

MILLS
Roller Mills
Roy Allen, Kent, Ross and Day Three Roller Mills.
x 12", 9" x 24", 12" x 30" and 16" x 40" some with motors.
Lehman and Buhler Five Roller Mills.

Rubber Mills and Calendars
8 Rubber Mixing Mills by Birmingham, Farrell, Thropp, etc., from 36" to 60".
3 Three Roll Calendars of standard make; 12" x 30", 18" x 54" and 24" x 66".

Pulverizers, Grinders, Crushers, and Hammer Mills
6 Fitzpatrick Model D Stainless Steel Comminutors.
6 Mikro Pulverizers from Bantam to No. 4 some with motors.
FMC Model D80 Hammer Mill with Fan and Dust Collector.
Robinson Heavy Duty No. 4 Hammer Mill with 60 H.P. motor.
American Pulverizing Co. Ring Roll Crusher with 50 H.P. motor.
Sturtevant Jaw Crusher with 10" x 10" throat.
Sprout Waldron, Bauer and Robinson Double Runner Attrition Mills.
Raymond No. 45 Imp Mills with manganese hammers.
Simpson and Lancaster Muller Type Mixers; several sizes.
Williams, Gruendler, Stedman, Prater, Jay Bee and other heavy duty Mills with motors up to 125 H.P.

Pebble and Ball Mills
6 Buhrstone Lined Abbe Pebble Mills; 130 gal. 45" x 42" and 290 gal. 54" x 60".
2 Abbe Steel Jacketed Ball Mills; 15" x 21" and 32" x 36" with Balls and motors.
Steel Ball Mill 36" x 72" with 20 H.P. Motor and 3000# steel balls.
Hardinge Conical Ball Mill; 3' x 8"; other Hardinge Mills up to 8'x30".

MIXERS
35 Dry Powder Mixers New and rebuilt in stock 200 lb. to 4,000 lb.
30 Heavy Duty W. & P. type Jacketed Double Arm Mixers; geared both ends; 20 gal. to 150 gal.
2 Conical Tumbling Batch Mixers; 20 cu ft. and 80 cu. ft.
Stainless Steel Readco Double Arm 75 gal. Mixer.
8 Glen Mixers 340 gal. complete with 7½ H.P. motors and accessories
Large stock of Pony Mixers, Change Can Mixers Lead and Paste Mixers in all wanted sizes.

TABLET PRESSES
Stokes Single Punch, E, F, T, R Presses; Colton, 3E, 5½, 9 AT; Rotary Presses.
Stokes, Rotary D3, D4, DS3, DD, and Colton 9-18, 10-35; Kux 25, 52, 60 and 64.

PUMPS
Large stock of Beach Russ, Leiman, Devine, Buffalo, Nash, Kinney wet and dry types in all capacities.

MISCELLANEOUS
Stainless Steel Truck Type Oval Tank; 2,100 Gal. 5' x 6' x 12' 8", with catwalk and ladder to manhole.
Steel Bubble Cap Fractionating Column 5' Dia. 17 sections.
50 Gal. Nickel Pressure Kettle; 30" x 22".
Four 8,000 Gal. Steel Welded Tanks; ½" thick steel; 8' x 20'.
Copper Calandria Type Vacuum Still; 10' x 16'.
Ball & Jewell Stainless Steel Rotary Cutter with 30 H.P. motor.
Standard Knapp 429-600 Automatic Glue and Sealer-motorized.
Allen 8" Jacketed Head Extruder and Strainer.
8 Ro-Ball and Rotex Sifters from 20" x 48" to 40" x 120".

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Stainless Steel Tanks, new, 100 and 200 gal., dished bottoms with stands.
1—Chrome Tank, #430, vertical, with dished bottom, ⅜ plate, and cover.
20—Steam Jacketed Kettles, Stainless Steel, Copper & Aluminum, 5 to 250 gals.
1—Copper Evaporator, steam jacketed, 6'7" x 3'5".
60—New Pressure Cookers, 18" x 18" & 24" x 28".
50—Pumps, steam and electric.
2—New Glass Nash Centrifugal Pumps, 160 gpm at 40'.
1—Buflovak Impregnating Tank, 42" x 52", steam jacketed, used one week.
1—Ribbon type Mixer, steam jacketed.
1—Steel Tank, 67,500 gals.
1—500 gal. Vert. Glass-Lined Tank.
1—150 gal. Jacketed Glass-Lined Tank with agitator.
1—Sweetland Filter, No. 5, 15 leaves.
1—Sperry Filter, 18 x 18, 24 plate.
2—Plate & Frame Filters, 25", open del.
1—Patterson Pebble Mill, 36" dia. x 42".
1—300 gal. Steam Jacketed Double Arm Mixer.
4—Stokes Rotary Tablet Machines RD4.
10—New Sharples Oil Purifiers.
6—New Clevon Can Filling Machines.

SPECIAL :-: Liquidating large Chemical Plant—write for complete lists of equipment.

H. LOEB & SON :-: **4643 LANCASTER AVE. PHILADELPHIA 31, PA.**

FOR SALE

3—9" x 24" motor driven roller mills.
1—16 x 40 roller mill.
3—12 x 30 roller mills.
PONY MIXERS from 2½ gallons to 40 gallons.
2—4'6" x 5' burr stone-lined pebble mills.
1—Paterson 6' x 5' watercooled steel ball mill.
10—New portable tanks on wheels, size 36 x 36, for change can mixers.
10—8" Premier Colloid Mills.

Specializing in Rebuilt Machinery

IRVING BARCAN COMPANY
249 Orient Ave., Jersey City 5, N. J.
DElaware 2-4475

FOR SALE

Fork Lift—Ross—7500#—19T.
750 Gal. W&P Mixer, Steel Jacketed, Sigma Blades, unused.
Kettle, 5'x8', jack./ag.
Smelting Furnace, U. S. No. 2.
Glasslined agit. kettle, 800 gal.
Pebble Mills, 30x33, 54x42, 72x60.
Heaters—Area—Trane unused—21,500 cfm.
Ball Mill—Hardinge 4½'x16", 6'x48".
Crushers, Roll, 12"x12", 16"x10", 54x20.
Rotary Dryers, 3½x30, 4'x60', 6'8"x40'.
Crushers—Jaw: 7"x9", 5"x12", 12"x26", 54"x36" Link Belt Drum Type Mixer.
Tolhurst Centrifuges, 24", 40", 48".
Blowers, Exhausters, Pumps.
Blowers, Exhausters, many sizes.
Stokes Eureka Tablet Machine.

LAWLER COMPANY
Durham Ave. & Lawler Pl., Metuchen, N. J.

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42" DIA x 24' VERTICAL WELDED

Inspected and Approved For 400 lb. Pressure

EMSCO EQUIPMENT CO.
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OFFERINGS FROM STOCK

6—Anderson Oil Expellers, #1 & Duo.
6—French Oil Expellers 40 HP XPF M.D.
New Pfaudler 65 gal. Glass-Lined Kettles.
Mikro #1 SH Pulverizers 3 HP Other sizes
1—#00 Raymond Mill 30 HP. complete.
4—French Oil 400-Ton Linseed Presses.
1—Dopp 1,000 gal. Jack Agit Kettle.
1—#7 Sweetland Filter bottom drainage
1—Lehman 4 Roll W C, 12"x36" Steel Mill
1—Hardinge Conical Ball Mill. 4½'x24"
4—Allbright-Nell 4'x9' Atmos. Drum Dryers & Flakers.
1—Devine No. 3 Vac. 4 Shelf Dryer.
1—Badger 42" dia. Monel column.
1—Buffalo Vac. Drum Dryer, 24"x20".
1—Century 2 HP. 4 speed Vert. Mixer.
3—Baker Perkins heavy duty Jack Mixers 200, 100, 50, 9 gals & 0.7 gals.
Stokes #2E Paste Filler, fills to 5 gals.
Impreg. Units, Lab. or Pilot Plant & up.
2—Abbe Pebble Mills, 6'x8' & 60"x48".
8—Abbe Jar Mills, Lab. to 6 gal. sizes.
2—Master drum type Blenders, 1,000#.
15—Sperry & Shriver, 12", 18", 24", 30", 32", 42" Iron & Wood Filter Presses.
2—12" Bronze & Rubber Filter Presses.
Extra 36" Iron Sperry Plates & Frames.
1—Allis-Chalmers 1 HP Gyratory Sifter.
3—Tyler 38 Jr. Hummer Screens, 20"x60"
2—Robinson No. 10 Saw Tooth Crushers.
6—Tolhurst 40" Suspended Type Centrifugals, Bottom Discharge.
3—Lehman & Kent 3-Roll Steel Mills 3"x9", 8"x22", 9"x32", 12"x30", 16"x40".
1—9"x24", 3 pair high, Steel Roller Mill.
4—Stokes & Colton Rotary & Single Punch Tablet Machines, ½" to 3".
1—Robinson 22" Ball Bearing Attrition Mill, double pulleys.
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OPD Forum

—Continued from page 82

obtains the 'Visa' but somebody else, and thus the first difficulty incurred by the French legislation was that it could not find a proper legal definition of who is the inventor of such a chemical compound. It is for the government or the administration or for the French parliament to resolve this problem, in all wisdom, as to where discovery starts and where it ends, or slides over from one into the other, which is almost an impossibility.

"The situation might arise where one laboratory obtains a 'Visa de Specialite' and another firm is the owner of the process patent (French legislation gives protection only to manufacturing processes and not to product). In that case, the owner of the visa is just in a vacuum: it depends on whether the owner of the process patent will supply him with the chemical or find another understanding."

Mr. Vaille concluded this interview by saying that, in order to protect the interest of the American pharmaceutical industry in France, the American manufacturer must get his way with the French law. If and when he is acquainted with it, he will not fail to profit from all advantages of the legislation and he will find out by himself that there is no discrimination whatsoever against foreign industry, because not only the principle of fair play but of free enterprise is foremost in the minds of the French legislators and the French government.

New York DR. F. JONAS COMPANY

Essential Oils

—Continued from page 80

advances might be expected in the very near future.

Eucalyptol—A sharp advance was made in the market price of this item last week. Resulting from the greatly advanced cost of eucalyptus oil, prices jumped 40c. per pound to range from $2.25 to $2.30 per pound. Supplies were extremely limited.

Eugenol—Based on the ever-increasing cost of clove buds, which last week advanced sharply, this product was forced higher to prices ranging from $3 to $3.42 per pound. Producers were inclined to expect further strengthening if the clove situation continues as it has been.

Ionones—The difficulty of obtaining lemongrass oil at anything but very high prices has begun to strengthen the price position of these derivatives. The alpha material was quoted at the wide variety of prices, ranging from $5.55 to $15.40 per pound and the beta at $7 to $9.35 per pound. Producers were of the opinion that new advances might be forthcoming.

Methyl Benzoate—All producers have now raised the price of this chemical, thus placing the spot market at 60c. to 65c. per pound in drums, depending upon quantity purchased. Again, the difficulty of obtaining the basic chemicals was felt to be the cause of the advance.

Terpineol—The scarcity and high cost of pine oil essential for the manufacture of this product has made it necessary for producers to advance the price to a range of 45c. to 55c. per pound. The item was reported to be extremely tight with few actual offers being made. It was also predicted that the price might be further advanced in the near future.

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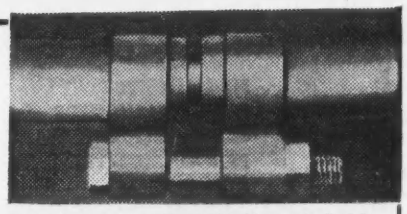

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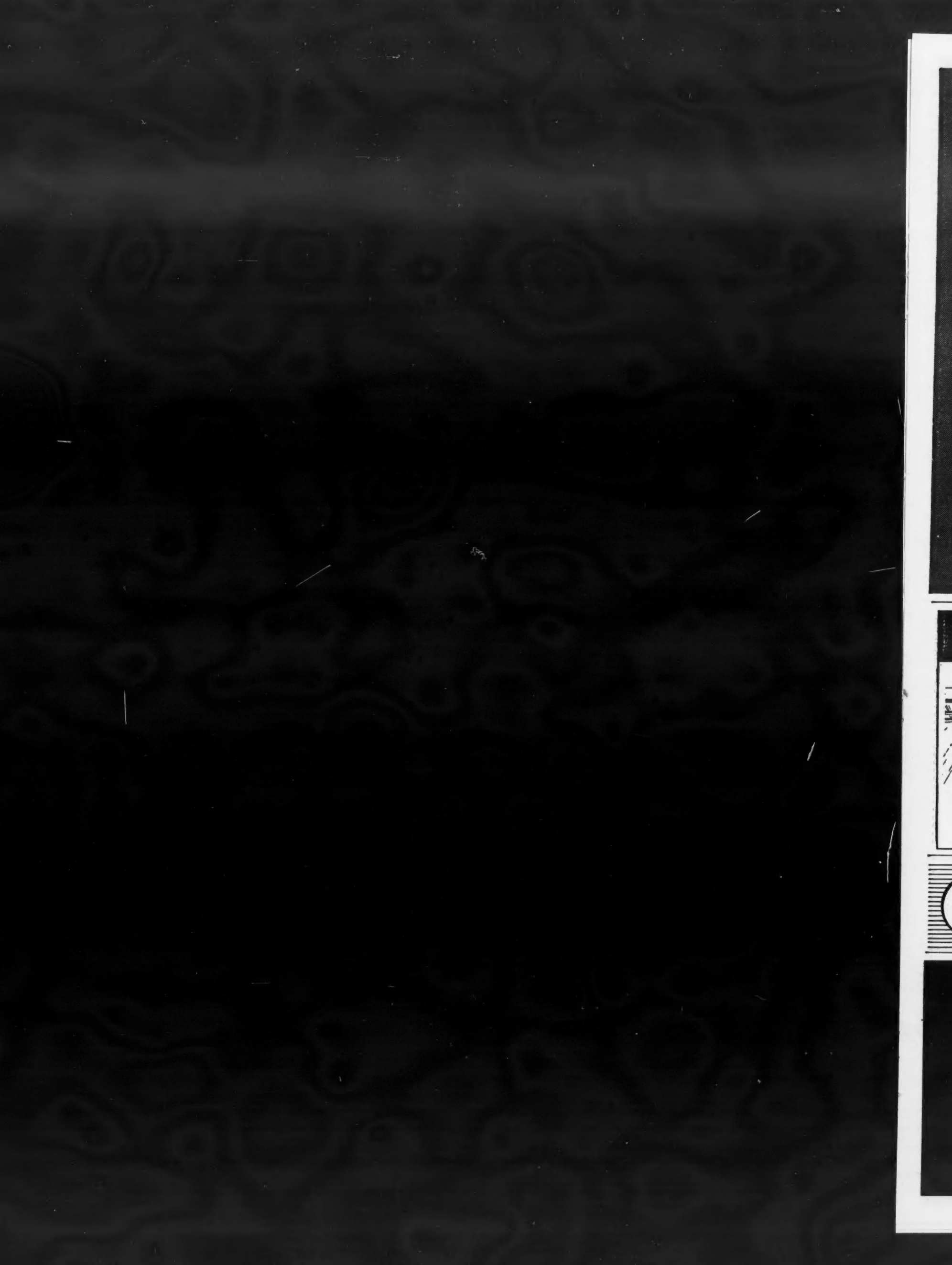
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